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SOFTWARE HISTORY

DPI620G & DPI620G-IS

Portable Multifunction Calibrator



DPI620G (Genii Commercial Variant) Software Release 22M Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.11.35
Operating System	DK0419	V02.05.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V12.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.02.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 22M Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.11.35
DPI620G-IS Operating System	DK0448	V01.04.00
DPI620G-IS Bootloader	DK0447	V01.01.00
DPI620G-IS HART Application	DK0464	V01.01.01
DPI620G-IS HART Bootloader (Programmed at manufacture time, not upgradeable)	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V12.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.02.00
DPI620G-IS CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0458	V03.00.00
DPI620G-IS CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0459	V02.00.00
DPI620G-IS PSU CPLD (Programmed at manufacture time, not upgradeable)	DK0457	V03.00.00

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

§ Refer to USB memory device folder structure requirements below.

CHANGES SINCE LAST VERSION

DK0420

Allows download of procedure file names which contain accented characters, for compatibility with 4Sight2 languages other than English.

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii and GENii-IS

RELEASE DATE

15th December 2017



DPI620G (Genii Commercial Variant) Software Release 21L Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.10.02
Operating System	DK0419	V02.05.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V12.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.02.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 21L Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.10.02
DPI620G-IS Operating System	DK0448	V01.04.00
DPI620G-IS Bootloader	DK0447	V01.01.00
DPI620G-IS HART Application	DK0464	V01.01.01
DPI620G-IS HART Bootloader (Programmed at manufacture time, not upgradeable)	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V12.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.02.00
DPI620G-IS CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0458	V03.00.00
DPI620G-IS CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0459	V02.00.00
DPI620G-IS PSU CPLD (Programmed at manufacture time, not upgradeable)	DK0457	V03.00.00

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

§ Refer to USB memory device folder structure requirements below.

CHANGES SINCE LAST VERSION

DK0420

Fixed pressure sensor not energising in Documenting

Fixed sine and triangle sourcing voltage wrapping by limiting to 11.4V (Genii IS)

Fixed crash when selecting only pressure function

Fixed current Measure error when 24V Loop switched on

Added table view of Log Data

Added options in Documenting to switch on 24V or 28V loop power and 10V on Channel 1.

Added auto-filling of Doc test details from procedure

Added prevention of download of Intecal/4sight procedures whilst in documenting

Changed to read aux sensor details at end of Intecal/4sight downloaded procedure to prevent incorrect module details.

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii and GENii-IS



RELEASE DATE

15th December 2017

Unzipped USB memory device folder structure

USB memory device root

↳ AMC
OS
HART
FPGA
HCF



DPI620G (Genii Commercial Variant) Software Release 20K Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.08.14
Operating System	DK0419	V02.05.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V12.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.02.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 20K Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.08.14
DPI620G-IS Operating System	DK0448	V01.04.00
DPI620G-IS Bootloader	DK0447	V01.01.00
DPI620G-IS HART Application	DK0464	V01.01.01
DPI620G-IS HART Bootloader (Programmed at manufacture time, not upgradeable)	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V12.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.02.00
DPI620G-IS CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0458	V03.00.00
DPI620G-IS CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0459	V02.00.00
DPI620G-IS PSU CPLD (Programmed at manufacture time, not upgradeable)	DK0457	V03.00.00

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

§ Refer to USB memory device folder structure requirements below.

CHANGES SINCE LAST VERSION

This software release Rev K contains the latest FFBUS libraries @ 6th Sept 17, DK0420 must be upgraded to install this FFBus library.

DK0401

DK0401 V12.00.00 contains HART DD Library version 2017_2

DK0461

PROFIBUS application fix: Crash/lockup in Set Address Dialogue.

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii and GENii-IS

RELEASE DATE

21st September 2017



Unzipped USB memory device folder structure

USB memory device root

└─ AMC
 OS
 HART
 FPGA
 HCF



DPI620G (Genii Commercial Variant) Software Release 19J Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.08.14
Operating System	DK0419	V02.05.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V11.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.01.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 19J Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.08.14
DPI620G-IS Operating System	DK0448	V01.04.00
DPI620G-IS Bootloader	DK0447	V01.01.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V11.00.00
Fieldbus Application (if installed upgraded during DK0420 upgrade)	DK0423	V01.05.00
DPI620G-IS CH2 FPGA (upgradeable if FPGA folder & files present [§])	DK0458	V03.00.00
DPI620G-IS CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0459	V02.00.00
DPI620G-IS PSU CPLD (Programmed at manufacture time, not upgradeable)	DK0457	V03.00.00

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

§ Refer to USB memory device folder structure requirements below.

CHANGES SINCE LAST VERSION

DK0420

- Hart Offline: character "/" in variable descriptions is decoded as "L"
- Hart Offline: HART devices prior to HART 5 now reported as not recognised
- Hart Offline: Fixed Saved filename is now remembered
- Hart Offline: Fixed Saved config now stays in Hart Config file list
- Hart Offline: Fixed EJX530A - Variables not read correctly in HART Offline
- Hart Offline: Fixed Labels that did not have text defined
- Hart Offline: Fixed Creating a New Config file failed second time
- Hart Offline: Fixed Incorrect value displayed in DEVICE SUMMARY OFFLINE
- Hart Offline: Fixed Some variables were not downloaded correctly
- Hart Offline: Fixed lockup on Open Hart Config
- Hart Offline: Fixed Error in decode XML file
- Hart Offline: Fixed missing Label Descriptions
- Hart Offline: Fixed could open a Saved Device Config
- Hart Offline: Fixed crash if SW attempts to delete GE_DD folder which doesn't exist
- Hart Offline: Added command description as well as number to error messages
- Hart Offline: Added Decode of hart miscellaneous errors
- Hart Offline: Added error message if variables are not uploaded



Hart Offline: Added Device and DD Revisions to Summary
Hart Offline: Added Clear of HART cache on SW upgrade
Hart Offline: Removed the few second Delay before polling starts
Fixed HART DD library reverting to 'custom' on SW upgrade
Fixed Vibration Utility caused Freq source range "Function uncalibrated"
Fixed Amplitude was wrong in Source Pulses
Fixed Source Pulses amplitude limit to be 12.0V on Genii IS
Fixed SDC displaying old value for CH2 when CH2 function is none
Fixed RTD PT1000 upper range issue
Speeded up Hart Open Device Config is very slow
SW Upgrade dialog replaced with Please Wait banner.
Added FieldBus / Profibus licence check

DK0401

DK0401 V11.00.00 contains HART DD Library version 2017_1

DK0447

Change of VCOM register value to reduce residual image issue.

DK0448

Change of VCOM register value to reduce residual image issue.

After upgrade of this DK is complete power-off and the power-on the DPI620 to update the software status build screen.

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii and GENii-IS

RELEASE DATE

3rd August 2017

Unzipped USB memory device folder structure

USB memory device root

└─▶ AMC
 OS
 HART
 FPGA
 HCF



DPI620G (Genii Commercial Variant) Software Release 18H Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.07.13
Operating System	DK0419	V02.05.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V10.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.01.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 18H Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.07.13
DPI620G-IS Operating System	DK0448	V01.03.00
DPI620G-IS Bootloader	DK0447	V01.00.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V10.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.05.00
DPI620G-IS Analogue MAIN FPGA (IC43)	DK0458	V03.00.00
DPI620G-IS Analogue ISOL CPLD (IC24)	DK0459	V02.00.00
DPI620G-IS Analogue PSU Board CPLD (IC19)	DK0457	V03.00.00
DPI620G-IS HART Processor Combined Image	DK0462*	V01.01.01
GeniiProfi (PROFIBUS) Application	DK0461	V01.01.00

*DK0462 is not present as a real instance on the instance and its status cannot be displayed. It is a combined binary image of DK0463 and DK0464 which is used in production to program the HART microprocessor.

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

CHANGES SINCE LAST VERSION

DK0420

Temperature standard for D100 RTD: JIS-89/JIS-97 were referenced but never set. Now using IPTS68 or ITS90 instead.

Source Ohms calibration was outputting a setpoint if the value was the same as the last setpoint. This caused a problem when entering or exiting calibration mode.

DPI620G-IS data logging: if logged files found in internal memory, then they are automatically copied to SD memory.

DUCI IV/IR command: Over-range and under-range values return value 999999999 and -999999999 respectively. Previously, could get huge numbers which messed up the presentation of T&M cal results. Taken out the 'remembering last use settings' of a pressure or IDOS sensor. This was added in V3.00 but is found to cause a problem when selecting pressure task, eg "P1-Switch Test"; the switch test utility was wrongly being reset if it was not used in that way the last time that sensor used.

Inconsistent Pressure readings with PM620 serial number 2804505. The range is cleared on disconnection so that subsequent connections to a sensor will only be updated with the new sensor's information
Forces data logging to internal memory if SD card/memory not visible.



Datalog date/time jump fixed. This was caused by rollover of the timer used to monitor elapsed time since start of logging.

Added custom 'Knightrider' banner that does not cause problems with HART comms.

Data logging – fixed gradually increasing time interval.

Added capability, on DPI620G-IS only, to turn on loop drive when CH2 has no function and running HART function.

Removed running of GenDir.exe every Hart Offline entered (affected comms)

Added extra HART Offline static menus for as some devices were not displaying full tree.

Switched off Hart tx polling when running OPEN HART CONFIG

Device ID not being read correctly from hart.xml file

Scaling parameters entry fixed. Scaling parameters cannot be edited while scaling is enabled.

Freq src sync pulse setting stopped from turning off CH2 power. This was interfering with the switch test with freq src.

DK0401

Latest 2016_4 version of HART DD Library

DK0419

Improvements to pdf viewer (zoom facility).

DK0448

Improvements to pdf viewer (zoom facility).

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii and GENii-IS

RELEASE DATE

28th March 2017

Unzipped USB memory device folder structure

USB memory device root

↳ AMC
OS
HART
FPGA
HCF



DPI620G (Genii Commercial Variant) Software Release 17G Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.06.04
Operating System	DK0419	V02.04.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V09.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.01.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 17G Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.06.04
DPI620G-IS Operating System	DK0448	V01.02.00
DPI620G-IS Bootloader	DK0447	V01.00.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V09.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.05.00
DPI620G-IS Analogue MAIN FPGA (IC43)	DK0458	V03.00.00
DPI620G-IS Analogue ISOL CPLD (IC24)	DK0459	V02.00.00
DPI620G-IS Analogue PSU Board CPLD (IC19)	DK0457	V03.00.00
DPI620G-IS HART Processor Combined Image	DK0462*	V01.01.01
GeniiProfi (PROFIBUS) Application	DK0461	V01.01.00

*DK0462 is not present as a real instance on the instance and its status cannot be displayed. It is a combined binary image of DK0463 and DK0464 which is used in production to program the HART microprocessor.

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

CHANGES SINCE LAST VERSION

DK0420

Frequency Source sinusoidal/triangular waveform amplitude calibration bug fixed.

Resistance mode (Standard/True/High) is displayed correctly in channel window.

Language files changed from comma separated fields to '|' character. This allows text strings to contain commas.

Fixed bug in HART - length of command written to device could sometime be calculated wrongly.

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii and GENii-IS

RELEASE DATE

9th January 2017



Unzipped USB memory device folder structure

USB memory device root

└─ AMC
 OS
 HART
 FPGA
 HCF



DPI620G (Genii Commercial Variant) Software Release 16F Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.05.00
Operating System	DK0419	V02.04.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V09.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.01.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 16F Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.05.00
DPI620G-IS Operating System	DK0448	V01.02.00
DPI620G-IS Bootloader	DK0447	V01.00.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V09.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.05.00
DPI620G-IS Analogue MAIN FPGA (IC43)	DK0458	V03.00.00
DPI620G-IS Analogue ISOL CPLD (IC24)	DK0459	V02.00.00
DPI620G-IS Analogue PSU Board CPLD (IC19)	DK0457	V03.00.00
DPI620G-IS HART Processor Combined Image	DK0462*	V01.01.01
GeniiProfi (PROFIBUS) Application	DK0461	V01.01.00

*DK0462 is not present as a real instance on the instance and its status cannot be displayed. It is a combined binary image of DK0463 and DK0464 which is used in production to program the HART microprocessor.

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

CHANGES SINCE LAST VERSION

DK0420

Fixed GENii-IS CJ compensation issue in TC Source function.

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii IS

RELEASE DATE

13th December 2016

Unzipped USB memory device folder structure



USB memory device root

- ↳ AMC
- OS
- HART
- FPGA
- HCF



DPI620G (Genii Commercial Variant) Software Release 15E Component Versions

This release comprises the following versions for the DPI620G:

Description	DK Number	Version
Genii Application	DK0420	V03.04.00
Operating System	DK0419	V02.04.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V09.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.01.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 15E Component Versions

This release comprises the following versions for the DPI620G-IS:

Description	DK Number	Version
Genii Main Application	DK0420	V03.04.00
DPI620G-IS Operating System	DK0448	V01.02.00
DPI620G-IS Bootloader	DK0447	V01.00.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V09.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.05.00
DPI620G-IS Analogue MAIN FPGA (IC43)	DK0458	V03.00.00
DPI620G-IS Analogue ISOL CPLD (IC24)	DK0459	V02.00.00
DPI620G-IS Analogue PSU Board CPLD (IC19)	DK0457	V03.00.00
DPI620G-IS HART Processor Combined Image	DK0462*	V01.01.01
GeniiProfi (PROFIBUS) Application	DK0461	V01.01.00

*DK0462 is not present as a real instance on the instance and its status cannot be displayed. It is a combined binary image of DK0463 and DK0464 which is used in production to program the HART microprocessor.

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

CHANGES SINCE LAST VERSION

DK0420

Some Genii-IS units failed to correctly detect the Ohms measure wire-mode when connected to high value resistors (4000R). A high sense current was causing an over-range value from the ADC during the wire-mode detection process. The maximum sense current has now been reduced for Standard and True Ohms measure modes on the -IS product, DPI620G-IS (Does not affect commercial product, DPI620G).

APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii IS

RELEASE DATE



18th November 2016

Unzipped USB memory device folder structure

USB memory device root

- ↳ AMC
- OS
- HART
- FPGA
- HCF



DPI620G (Genii Commercial Variant) Software Release 14D Component Versions

This release comprises the following DK component versions for the DPI620G:

DPI620G file descriptions	DK Number	Version
Genii Application	DK0420	V03.02.00
Operating System	DK0419	V02.04.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V09.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.01.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 14D Component Versions

This release comprises the following DK component versions for the DPI620G-IS:

DPI620G-IS file descriptions	DK Number	Version
Application	DK0420	V03.02.00
Operating System	DK0448	V01.02.00
Boot loader, Operating System (upgraded during DK0448 upgrade)	DK0447	V01.00.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V09.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.05.00
DPI620G-IS Analogue MAIN FPGA (IC43)	DK0458	V03.00.00
DPI620G-IS Analogue ISOL CPLD (IC24)	DK0459	V02.00.00
DPI620G-IS Analogue PSU Board CPLD (IC19)	DK0457	V03.00.00
GeniiProfi (PROFIBUS) Application	DK0461	V01.01.00
DPI620G-IS HART Processor Combined Image	DK0462*	V01.01.01

*DK0462 is not present as a real instance on the instance and its status cannot be displayed. It is a combined binary image of DK0463 and DK0464 which is used in production to program the HART microprocessor.

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

CHANGES SINCE LAST VERSION

DK0419

The value returned by the Operating System (OS) to identify the DPI620G has changed such that: The most significant 16-bits of the 32-bit integer value contain the DK number of the OS (419) and the least significant 16-bits return the board revision.

DK0420

The value expected from the Operating System (OS) to identify the variant (DPI620G or DPI620G-IS) has changed. This allows the board revision to be maintained independently for the two variants and can therefore have the same value.

DK0448

The value returned by the Operating System (OS) to identify the DPI620G-IS has changed such that: The most significant 16-bits of the 32-bit integer value contain the DK number of the OS (448) and the least significant 16-bits return the board revision.



APPLICABILITY OF NEW ISSUE

These issues of software are to be used in the production version of the following instruments: DPI620 Genii IS

RELEASE DATE

23rd September 2016

Unzipped USB memory device folder structure

USB memory device root

- ↳ AMC
- OS
- HART
- FPGA
- HCF



DPI620G (Genii Commercial Variant) Software Release 13C Component Versions

This release comprises the following DK component versions for the DPI620G:

DPI620G file descriptions	DK Number	Version
Genii Application	DK0420	V03.01.07
Operating System	DK0419	V02.03.01
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V09.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK0423	V01.05.00
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.01.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) Software Release 13C Component Versions

This release comprises the following DK component versions for the DPI620G-IS:

DPI620G-IS file descriptions	DK Number	Version
Application	DK0420	V03.01.07
Operating System	DK0448	V01.01.01
Boot loader, Operating System (upgraded during DK0448 upgrade)	DK0447	V01.00.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V09.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.05.00
DPI620G-IS Analogue MAIN FPGA (IC43)	DK0458	V03.00.00
DPI620G-IS Analogue ISOL CPLD (IC24)	DK0459	V02.00.00
DPI620G-IS Analogue PSU Board CPLD (IC19)	DK0457	V03.00.00
GeniiProfi (PROFIBUS) Application	DK0461	V01.01.00
DPI620G-IS HART Processor Combined Image	DK0462*	V01.01.01

*DK0462 is not present as a real instance on the instance and its status cannot be displayed. It is a combined binary image of DK0463 and DK0464 which is used in production to program the HART microprocessor.

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

CHANGES SINCE LAST VERSION

DK0419

Powerdown sequence timeout increased from 10 to 15 seconds. This is to allow all functions to be shutdown before the instrument goes into standby or power off state.

DK0420

Updated DPI620G-IS user manuals (still all in English).

Corrected displaying of software status. Now shows correctly upgradable or beta status for PROFIBUS and PS CPLD (Genii-IS) correctly.

Bug fix: Crash (with null reference error) when closing FF/Profibus function.

Bug fix: Reading HART commands when byte count = 0.

Datalog sessions are deleted via improved file management capability.

Bug fix: Recall of datalog files with communicator functions running is not allowed if HART, Fieldbus or Profibus is running, as changing of functions is not normally allowed in this state.



Bug fix: Disallow start of datalogging session with the same name as an existing session name. Session is, therefore, not allowed to be overwritten. The user can manually go to the delete menu to remove unwanted session data.

Bug fix: DPI620G powerdown button press was wrongly prompting user to remove USB connection even when there was no connection.

Error analysis channels setup of reference and analysis channel corrected.

Bug fix (affects non-IS variant only): Importing and exporting custom RTD files and HART config files without USB memory device connected was not working properly.

Bug fix: During manual cal of source functions the setpoint entry keypad caption was not correct.

Bug fix: Source Frequency on CH1 with non-Hz units (eg, CPM) crashed when vibration utility enabled.

Bug fix: Removed 30 sec delay on startup which prevented theme crash (fix now in OS).

DK423

Removed some critical logging statements from debugging activities.

Bug fix: On Emerson 2051/3051 where the device-type is not in the device-id string.

Bug fix: Genii About Box used version-string from the registry, not the Language file, which is no consistent with the DPI620G/DPI620G-IS update mechanism.

Bug fix: Help is disconnected from Genii deployment.

Bug fix: Export of IPC variable values back to Genii

DK0448

Bug fix: HART driver bug when sending messages $n*4 + 3$ bytes in length.

Bug fix: display driver fix for theme change.

DK0461

Bug fix: Export variable units and availability.

APPLICABILITY OF NEW ISSUE

This release of software is used in the production version of the following instrument models: DPI620G and DPI620G-IS. This release of DPI620 GENii software obsoletes previous DPI620 GENii beta software versions.

RELEASE DATE

15th September 2016

Unzipped USB memory device folder structure

USB memory device root

↳ AMC
OS
HART
FPGA
HCF



DPI620G (Genii Commercial Variant) Software Release 12B Component Versions

This release comprises the following DK component versions for the DPI620G:

DPI620G file descriptions	DK Number	Version
Genii Application	DK0420	V03.00.44
Operating System	DK0419	V02.03.00
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK0418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK0417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK0416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK0421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK0401	V09.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK0423	V01.04.02
PROFIBUS Application (upgraded during DK0420 upgrade)	DK0461	V01.00.00
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK0413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK0414	V03.00.00

[§] Refer to USB memory device folder structure requirements below.

DPI620G-IS (Genii Intrinsically Safe Variant) first Software Release 12B Component Versions

This release comprises the following DK component versions for the DPI620G-IS:

DPI620G-IS file descriptions	DK Number	Version
Application	DK0420	V03.00.44
Operating System	DK0448	V01.00.06
Boot loader, Operating System (upgraded during DK0448 upgrade)	DK0447	V01.00.00
DPI620G-IS HART Processor Application	DK0464	V01.01.01
DPI620G-IS HART Processor Bootloader	DK0463** DK0416**	V01.00.00
SDC625 (HART) Application	DK0421	V01.05.00
SDC625 HART DD Library	DK0401	V09.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.04.02
DPI620G-IS Analogue MAIN FPGA (IC43)	DK0458	V03.00.00
DPI620G-IS Analogue ISOL CPLD (IC24)	DK0459	V02.00.00
DPI620G-IS Analogue PSU Board CPLD (IC19)	DK0457	V03.00.00
GeniiProfi (PROFIBUS) Application	DK0461	V01.00.00
DPI620G-IS HART Processor Combined Image	DK0462*	V01.02.00

*DK0462 is not present as a real instance on the instance and its status cannot be displayed. It is a combined binary image of DK0463 and DK0464 which is used in production to program the HART microprocessor.

**DK0416 and DK0463 are equivalent. The function of this component is to boot the HART processor application and either one of these is the acceptable installation on the DPI620G-IS.

CHANGES SINCE LAST VERSION

DK0420

Developed to support DPI620G-IS.

New features: HART Offline Mode and Graphing tool

DK401

This has been updated to the Current Release of the DD Library - 2016, No. 1, as issued by the FieldComm Group (formerly referred to as the HART Communications Foundation).

DK423

Bug fix: GeniiFF (Foundation Fieldbus Application).

DK0431

This component has been removed as it is no longer required. The graph feature is now implemented in the main application (DK0420).



DPI620G-IS first software releases:

- DK0448** - main processor operating system (Windows Embedded Compact 7) code.
- DK0447** - main processor boot-loader code.
- DK0464** - HART Processor application code.
- DK0463** - HART Processor boot-loader code.
- DK0458** - Analogue board CH1 FPGA code.
- DK0459** - Analogue board CH2 CPLD code.
- DK0457** - Factory programmable DPI620G-IS analogue board PSU CPLD code.
- DK0462** - Combined image that is used to program the HART processor in production.
- DK0461** - PROFIBUS application.

APPLICABILITY OF NEW ISSUE

This release of software is used in the production version of the following instrument models: DPI620G and DPI620G-IS. This release of DPI620 GENii software obsoletes previous DPI620 GENii beta software versions.

RELEASE DATE

26th August 2016

Unzipped USB memory device folder structure

USB memory device root

- ↳ AMC
- OS
- HART
- FPGA
- HCF



DPI620 GENii RELEASE 12B (BETA 3) COMPONENT VERSIONS

Description	DK Number	Version
Genii Application	DK420	V02.06.03 (beta)
Operating System	DK419	V02.02.02
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present§)	DK417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present§)	DK416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present§)	DK401	V08.00.01
Fieldbus Application (upgraded during DK0420 upgrade)	DK423	V01.02.66 (beta)
Genii AMC Graph Application	DK431	V01.00.02
CH1 FPGA (upgradeable if FPGA folder & files present§)	DK413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

CHANGES SINCE LAST VERSION

DK0420

Updated to embed modified DK423 software below.

DK0423

Corrects a Fieldbus issue where the FFB device manufacturer has chosen not to load their device Identifier into the DEV_ID field, instead the device manufacture has loaded their device identifier into the device DEV_TYPE field. This change realigns the GENii with fieldbus technical specification.

APPLICABILITY OF NEW ISSUE

This issue of software is for use in the production version of: DPI620 Genii

COMPATIBILITY

Correct operation of the product is supported only when DK component versions installed into the product agree with the above table.

RELEASE DATE

6th May 2016

Unzipped USB memory device folder structure

USB memory device root

- ↳ AMC
- OS
- HART
- FPGA
- HCF



DPI620 GENii RELEASE 12B (BETA 2) COMPONENT VERSIONS

Description	DK Number	Version
Genii Application	DK420	V02.06.02 (beta)
Operating System	DK419	V02.02.02
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present [§])	DK417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present [§])	DK416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present [§])	DK401	V08.00.01
Fieldbus Application (upgraded during DK0420 upgrade)	DK423	V01.02.65
Genii AMC Graph Application	DK431	V01.00.02
CH1 FPGA (upgradeable if FPGA folder & files present [§])	DK413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK414	V03.00.00

[§] Refer to USB memory device folder structure requirements below.

CHANGES SINCE LAST VERSION

DK0420

A beta release of DK420 software contains the foundation field device library downloaded on 20th April 2016.

DK0401

A beta release of software that contains the V2015_3 HART device library as downloaded on 30th March 2016.

APPLICABILITY OF NEW ISSUE

This issue of software is for use in the production version of: DPI620 Genii

COMPATIBILITY

Correct operation of the product is supported only when DK component versions installed into the product agree with the above table.

RELEASE DATE

20th April 2016

Unzipped USB memory device folder structure

USB memory device root

- ↳ AMC
- OS
- HART
- FPGA
- HCF



DPI620 GENii RELEASE 12B (BETA 1) COMPONENT VERSIONS

Description	DK Number	Version
Genii Application	DK420	V02.06.01 (beta)
Operating System	DK419	V02.02.02
Boot loader, Operating System (upgraded during DK0419 upgrade)	DK418	V02.01.00
HART Driver (upgradeable if HART folder & DK files present§)	DK417	V01.02.00
HART Boot loader (upgradeable if HART folder & DK files present§)	DK416	V01.00.00
SDC625 (HART) Application (upgraded during DK0420 upgrade)	DK421	V01.05.00
HART Device Library (upgradeable if HCF folder, subfolders & files present§)	DK401	V08.00.00
Fieldbus Application (upgraded during DK0420 upgrade)	DK423	V01.02.65
Genii AMC Graph Application	DK431	V01.00.02
CH1 FPGA (upgradeable if FPGA folder & files present§)	DK413	V15.00.00
CH2 CPLD (Programmed at manufacture time, not upgradeable)	DK414	V03.00.00

§ Refer to USB memory device folder structure requirements below.

CHANGES SINCE LAST VERSION

DK0420

A beta release of software that fixes DPI.EXE error displayed after selection of German language when release 11 (DK0420 V02.05.00) is installed.

To recover a GENii product that is displaying DPI.EXE after selection of the German language proceed as follows:

- I. Unzip release 12 (beta) into the root of a USB memory device.
- II. Power off the DPI620 GENii product.
- III. Insert this memory device into a DPI620 GENii product USB port.
- IV. Press and hold the DPI620 GENii power on/off button until the software upgrade dialogue box appears, then select Yes to force an application upgrade.
- V. Once the upgrade completes the DPI620 GENii will automatically power up with correct operation.

APPLICABILITY OF NEW ISSUE

This issue of software is for use in the production version of: DPI620 Genii

COMPATIBILITY

Correct operation of the product is supported only when DK component versions installed into the product agree with the above table.

RELEASE DATE

25th February 2016



DPI620 GENii RELEASE 11A COMPONENT VERSIONS

Description	DK Number	Version
Genii Main Application	DK0420	V02.05.00
Genii Operating System	DK0419	V02.02.02
Genii Bootloader	DK0418	V02.01.00
Genii HART Processor Application	DK0417	V01.02.00
Genii HART Processor Bootloader	DK0416	V01.00.00
HART (SDC625) Application	DK0421	V01.05.00
HART DD Library	DK0401	V08.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.02.65
Genii AMC Graph Application	DK0431	V01.00.02
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES SINCE LAST VERSION

DK0418

Reduced OS boot time.

DK0419

Reduced OS boot time (MPC Data).

Added fix for ActiveSync lock up problem.

Displays OS upgrade progress.

Added Unicode Script Processor for Complex Scripts to support scripts with special processing requirements.

Disabled Microsoft low battery warning popup.

Modified HART driver remove gaps within SPI packets.

DK0420

Corrected version numbers file for identification of out of date software components.

DK0421

This DK is upgraded automatically during a DK0420 application upgrade.

Fixed crash problem with Honeywell & Yokogawa transmitters; HART receive buffers increased in size from 50 to 512 bytes to handle larger message data length. This DK is upgraded automatically during a DK0420 application upgrade.

APPLICABILITY OF NEW ISSUE

This issue of software is for use in the production version of: DPI620 Genii

COMPATIBILITY

Correct operation of the product is supported only when DK component versions installed into the product agree with the above table.

RELEASE DATE

14th October 2015



DPI620 GENii RELEASE 10 COMPONENT VERSIONS

Description	DK Number	Version
Genii Main Application	DK0420	V02.04.06
Genii Operating System	DK0419	V02.01.00
Genii Bootloader	DK0418	V02.00.00
Genii HART Processor Application	DK0417	V01.02.00
Genii HART Processor Bootloader	DK0416	V01.00.00
SDC625 (HART) Application	DK0421	V01.04.02
SDC625 HART DD Library	DK0401	V08.00.00
GeniiFF (Fieldbus) Application	DK0423	V01.02.65
Genii AMC Graph Application	DK0431	V01.00.02
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES SINCE LAST VERSION

DK0401

Downloaded HCF_KIT-312 (Complete Edition) DD Library -2014, No.4. from <http://www.hcf-files.org/webasyst> and packaged for installation onto AMC HART capable instruments.

DK0420

When running documenting procedure, the pass/fail check of the reference channel now compares the error as % of span against specified tolerance. This fixes a bug which was previously comparing a measured value in pressure units against a tolerance as a percentage.

DK0421

SC625 HART application: taken out some unnecessary delays and retries in communications.

APPLICABILITY OF NEW ISSUE

This issues of software are to be used in the production version of the following instruments: DPI620 Genii

COMPATIBILITY

Correct operation of the product is supported only when DK component versions installed into the product agree with the above table.

RELEASE DATE

31st July 2015



DPI620 GENii RELEASE 9 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V02.03.00
DPI620-Genii Operating System	DK0419	V02.01.00
DPI620- Genii Bootloader	DK0418	V02.00.00
DPI620- Genii HART Processor Application	DK0417	V01.02.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.03.00
AMC SDC625 HART DD Library	DK0401	V07.00.00
DPI620-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
DPI620-Genii AMC Graph Application	DK0431	V01.00.02
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0420

Bug fix: TC mV/TC measure and source functions calibrated with DK420 V2.00 or earlier had errors when used with DK420 V2.01 or later application software. This has been corrected.

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii

COMPATIBILITY

Correct operation of the product is supported only when DK component versions installed into the product agree with the above table.

RELEASE DATE

17th April 2015



DPI620 GENii RELEASE 8 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V02.02.06
DPI620-Genii Operating System	DK0419	V02.01.00
DPI620- Genii Bootloader	DK0418	V02.00.00
DPI620- Genii HART Processor Application	DK0417	V01.02.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.03.00
AMC SDC625 HART DD Library	DK0401	V07.00.00
DPI620-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
DPI620-Genii AMC Graph Application	DK0431	V01.00.02
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0420

Bug fix for XCDRUCK-787: Amc Sensor Zero not 'remembered' by sensor.

Bug fix for XCDRUCK-786: User Cal Mode crash.

Bug fix for XCDRUCK-785: OptionRadioBox test area overlaps the selection button image.

RTD GOST 2009 Table implementation (new functionality).

DK420 version display updated to V02.02.06

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii

COMPATIBILITY

N/A.

RELEASE DATE

7th October 2014



DPI620 GENii RELEASE 7 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V02.01.14
DPI620-Genii Operating System	DK0419	V02.01.00
DPI620- Genii Bootloader	DK0418	V02.00.00
DPI620- Genii HART Processor Application	DK0417	V01.02.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.03.00
AMC SDC625 HART DD Library	DK0401	V07.00.00
DPI620-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
DPI620-Genii AMC Graph Application	DK0431	V01.00.02
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0401

Updated to the current release of the DD Library -2013, No.4, as issued by the HART Communications Foundation.

DK0417

Rebuilt to prevent reprogramming of HART process bootloader.

DK0419

Changed to allow option to Switch Off, Go to Standby or Cancel when power button is pressed.
Added event to allow application shutdown OR suspend
Changed 'battery fully charged' voltage level.
Fixed bug in touchscreen driver.

DK0420

HART Offline capability introduced.
Data logging graph added.
Presents option to Switch Off, Go to Standby or Cancel when power button is pressed.
UI Performance setting can be selected for better visual quality or responsiveness (speed). Display setting defaults to SPEED. Change to QUALITY via PIN protected menu.
Documenting switch test supports test with up to 10 repeat cycles.
TC mV measure now uses main ADC.
Decimal Point symbol setting in registry is forced to '.' each time Genii.exe starts up.
HART function modified. On connecting a device with the HART function selected, the channel window will automatically start communications and obtain the device information and display live readings. Launching the SDC625 application hands over control to the application and work as in previous versions. Exiting the SDC app automatically reverts to direct mode. Off line HART is also available from the channel window.
Touch screen calibration capability is moved under engineering PIN.
Calibrator Only version (ie, no communicator functions). Enabled via DUCI.
DD Library location setting checks that there is a library present before accepting selection. When changed the DD library version information is updated in the software status page.
Temperature compensation of Source Ohms function has been removed.
Documenting switch test supports three versions: legacy, custom and FCINTF.
HART DD Library upgradeable using upgrade PIN and new library on USB memory device.



Bug fix XCDRUCK-773: Documenting Analysis Window showed spurious text when in HART mode with more than 2 channels active.

Bug fix: Data logging setup with HART device connected did not allow entry of filename anything other than the tag name of connected device.

Fieldbus DD Library upgrade capability added.

Now supports working with new Calibration Management System (4-Sight, AMS) driver.

Bug fix: Blue scroll bar and page scroll is enabling/disabling 'function change allowed' when HART SDC625 or FFB running has been fixed.

Bug fix XCDRUCK-772: "HART Crash - Error in Genii.exe" has been fixed.

Bug fix: pressure reading zero appeared to be unsuccessful the first time. The menu list button wasn't updating its value.

Bug fix: In remote mode, after setting all functions to null, the selection of a single function was not painting the channel window properly; only the (live) main reading panel was displayed. This was caused by the calibrator page being set to 1 when no functions were selected. Now, the page is forced to remain at 0 when in remote mode.

Bug fix: HART Modem firmware upgrade wasn't working.

DK0421

Units code is passed back correctly to Genii application via the IPC memory file.

Bug Fix: Part of the software issuing command 38 was causing a failure, as not all devices respond to this command.

DK0424

Updated combined binary for DK0416 v1.0.0 and DK0417 V1.02. (Used in manufacturing only – not user-upgradeable).

DK0431

Initial Release.

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii

COMPATIBILITY

N/A.

RELEASE DATE

13th May 2014



DPI620 GENii RELEASE 6 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V02.00.08
DPI620-Genii Operating System	DK0419	V02.00.00
DPI620- Genii Bootloader	DK0418	V02.00.00
DPI620- Genii HART Processor Application	DK0417	V01.01.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.02.00
AMC SDC625 HART DD Library	DK0401	V06.00.00
DPI62-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0417

Add compatibility for Sitrans P devices.
Extend test coverage capability for ATE.

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii

COMPATIBILITY

N/A.

RELEASE DATE

4th February 2014



DPI620 GENii RELEASE 5 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V02.00.02
DPI620-Genii Operating System	DK0419	V02.00.00
DPI620- Genii Bootloader	DK0418	V02.00.00
DPI620- Genii HART Processor Application	DK0417	V01.01.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.02.00
AMC SDC625 HART DD Library	DK0401	V06.00.00
DPI620-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0417

Added compatibility for Sitrans P devices.
Extend test coverage capability for ATE.

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii

COMPATIBILITY

N/A.

RELEASE DATE

18th December 2013



DPI620 GENii RELEASE 4 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V02.00.02
DPI620-Genii Operating System	DK0419	V02.00.00
DPI620- Genii Bootloader	DK0418	V02.00.00
DPI620- Genii HART Processor Application	DK0417	V01.00.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.02.00
AMC SDC625 HART DD Library	DK0401	V06.00.00
DPI62-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0401

Updated to the current release of the DD Library -2013, No.3, as issued by the HART Communications Foundation.

DK0418

Update to reflect change to DK419
No software change

DK0419

Add HART software update facility
Add Bluetooth support
Add multimedia applications: Photo Viewer, Video Player, Music Player
Add WordPad application
Remove fonts: Arial Unicode, GE Inspira
Change maximum battery voltage level from 4.2V to 4.0V

DK0420

HART Offline functionality introduced, initially as a demo version.
Improved task management with graphic indication of connections. Tasks are grouped into categories: pressure tasks, electrical tasks and favourites for each of the instrument modes.
New functions added to measure and source mA on CH2 with loop drive of 28Volts.
Fonts loaded on start up from this application. No longer required to be in OS.
Korean language support added.
Added user manuals in Italian, Russian, Japanese, Spanish, German, French and Portuguese.
Observed window displayed number of decimal places is automatically changed to match user entered value to preserve the entered resolution.
BUG FIX: CH2 mA source, voltage measurement with PCA issue 3 was not taking into account the changed ADC resolution per bit & PGA setting.
BUG FIX (XCDRUCK-719): CH1 Source: Pulses - counts up 1 pulse when starting. This was caused by the calculation of the pulses remaining which can sometimes give a result one greater than the number of pulses requested. This calculation affects only what is displayed and not the actual no of pulses sourced. This displayed value is now limit checked to never exceed the setpoint value.
BUG FIX (XCDRUCK-718): Task Menu - Tasks are in not in CAPITALS like other menus. Both issues fixed in V2.00.03. Menu items now in upper case and also in teh correct text colour.
BUG FIX (XCDRUCK-720): Numeric entry invalid range message box incorrect style and cannot close. A Windows CE message box was wrongly displayed.



BUG FIX (XCDRUCK-725): Task Menu contains an undefined field. This was caused by folder 'debris' left behind on early demo units. The code has been modified to ignore such folders and only display the expected ones.

BUG FIX (XCDRUCK-722): Genii.exe crash while using Documenting Analysis. The crash was caused by the re-enabling of the analysis channel window (after HOLD) was setting some of the unused text fields to null. A subsequent attempt to call a method on the string was causing the exception.

BUG FIX (XCDRUCK-723): CH1: Source: Pulses - numeric entry after scaling issue. The entered value was not being sent down to the DLL which was then continuing to show the previous value. Also, when enabling/disabling scaling the selected count value was not being converted to the new setting.

BUG FIX (XCDRUCK-724): CH2 mA source: No notification when current control detects error and drops out. Fault condition is now presented with message box with capability to restart function, after clearing fault condition.

BUG FIX (XCDRUCK-726): CH1: Source: Pulses - scaling and countdown time issue. The error was caused by the count value being stored in user units instead of base units. This value was being used to calculate the expected time to complete requested no of pulses.

CH2 mA source with loop drive was not restarting correctly following an error condition. This was caused by the same DLL function being shared between the CH2 mA, mA(24V) and mA(28V) functions. When restarting the function it couldn't be determined which one of the 3 was to be restarted. The loop drive was not being turned back on.

CH2 mA measure and source: faults states and variables are initialised on start up. Also, the function will only report a fault condition if there isn't already an unacknowledged or ignored fault condition.

BUG FIX: Nudge up button was being disabled when data logging was on. This affected source functions, eg, with nudge automation.

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii

COMPATIBILITY

N/A.

RELEASE DATE

5th November 2013



DPI620 GENii RELEASE 3 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V01.02.00
DPI620-Genii Operating System	DK0419	V01.00.00
DPI620- Genii Bootloader	DK0418	V01.00.00
DPI620- Genii HART Processor Application	DK0417	V01.00.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.02.00
AMC SDC625 HART DD Library	DK0401	V05.00.00
DPI62-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0420

Added extra derived pressure functions (P1+P2), (P1+IDOS), (P2+P1), (P2+IDOS), (IDOS+P1), (IDOS+P2).

Added touch screen test (requiring user to rub out a cross on the screen).

'Area of Use' setting was not being written to xml file. This has been fixed.

Added DUCI means to do device test for Fieldbus and HART.

Can set time via DUCI (ST Command).

Can perform FF Licensing via DUCI (SC command).

User manual can be exported to USB drive.

DK0421

BUG FIX (XCDRUCK-693): PV Units display - refresh problem. The units in use are now displayed correctly.

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii

COMPATIBILITY

N/A.

RELEASE DATE

7th August 2013



DPI620 GENii RELEASE 2 COMPONENT VERSIONS

Description	DK Number	Version
DPI620-Genii Main Application	DK0420	V01.00.02
DPI620-Genii Operating System	DK0419	V01.00.00
DPI620- Genii Bootloader	DK0418	V01.00.00
DPI620- Genii HART Processor Application	DK0417	V01.00.00
DPI620- Genii HART Processor Bootloader	DK0416	V01.00.00
DPI620-Genii SDC625 (HART) Application	DK0421	V01.00.00
AMC SDC625 HART DD Library	DK0401	V04.00.00
DPI62-Genii GeniiFF (Fieldbus) Application	DK0423	V01.02.65
AMC- Genii Analogue MAIN FPGA (IC43)	DK0413	V15.00.00
AMC- Genii Analogue ISOL CPLD (IC24)	DK0414	V03.00.00

CHANGES

DK0401

Updated to the current release of the DD Library -2013, No.1, as downloaded from by the HART Communications Foundation.

DK0420

Foundation Fieldbus added with working IPC.

CH1 & CH2 Volts measure (30V range) gain and scaling factor is different for PCA ID ≥ 3 .

URV/LRV symbols displayed correctly in HART channel window.

Caption text is not forced to upper case as it wrongly changes text such as mA.

Serial number can be set from front panel.

Dutch is available in language selection.

IE launches with genii.htm page.

Green LED on dashboard button to indicate application running.

Caption in channel window is fixed in size and better aligned.

Fixed overlapped display of sensor type and secondary reading (eg, TC Type & CJ value) in channel window.

Default backlight intensity set to 70%.

In measure function with max/min/mean enabled, the max value is not allowed to be less than the min value.

Advanced menu button has been moved to the bottom of the dashboard.

FPGA upgrade has been simplified.

HART processor upgrade has been simplified.

New User PIN can be entered properly.

DK0421

Bug Fixes:

During D/A trim, Genii does not accept decimal point).

Can only enter 1 digit when doing a D/A Trim).

DK0423

Initial Release.

APPLICABILITY OF NEW ISSUE

The issues of firmware should be used in production on the following series of instrument variants:
DPI620 Genii



COMPATIBILITY

N/A.

RELEASE DATE

11th July 2013



USB memory device root

↳ AMC
OS
HART
FPGA
HCF

