

FDT – X3301 Flame Detector

Setup – X3302 Flame Detector

This section displays typical screenshots when installing the X3302 driver into your FDT framework.

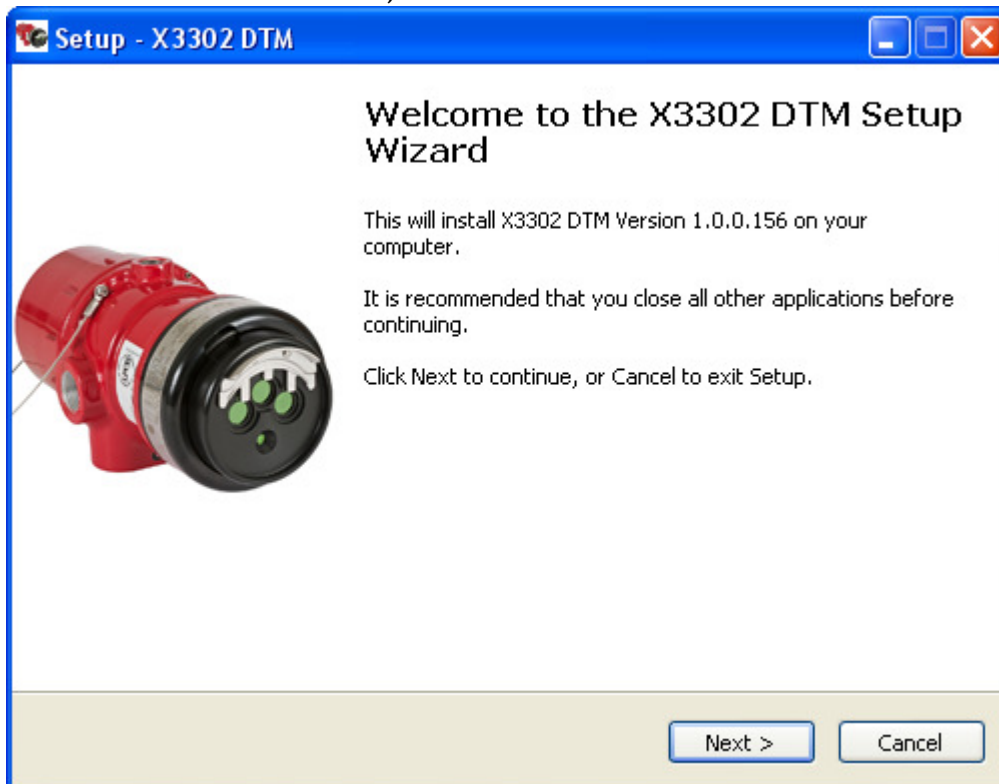
Select the setup file:

Name	Size	Type
FDT_Eclipse_Screenshots_4June2...	2,042 KB	Microsoft Word Document
FDT_Eclipse_Screenshots_4June2...	4,759 KB	Adobe Acrobat Document
FDT_GT3000_Screenshots_4June...	1,615 KB	Microsoft Word Document
FDT_OPECL_Screenshots_4June2...	1,900 KB	Microsoft Word Document
FDT_UD10_Screenshots_5June20...	2,316 KB	Microsoft Word Document
GT3000DTMSetup_1.0.0.156.exe	4,299 KB	Application
OPECLDTMSetup_1.0.0.156.exe	3,924 KB	Application
PIRECLDTMSetup_1.0.0.156.exe	4,075 KB	Application
UD10DTMSetup_1.0.0.156.exe	4,755 KB	Application
X3301DTMSetup_1.0.0.156.exe	4,351 KB	Application
X3302DTMSetup_1.0.0.156.exe	4,062 KB	Application
X5200DTMSetup_1.0.0.156.exe	4,056 KB	Application

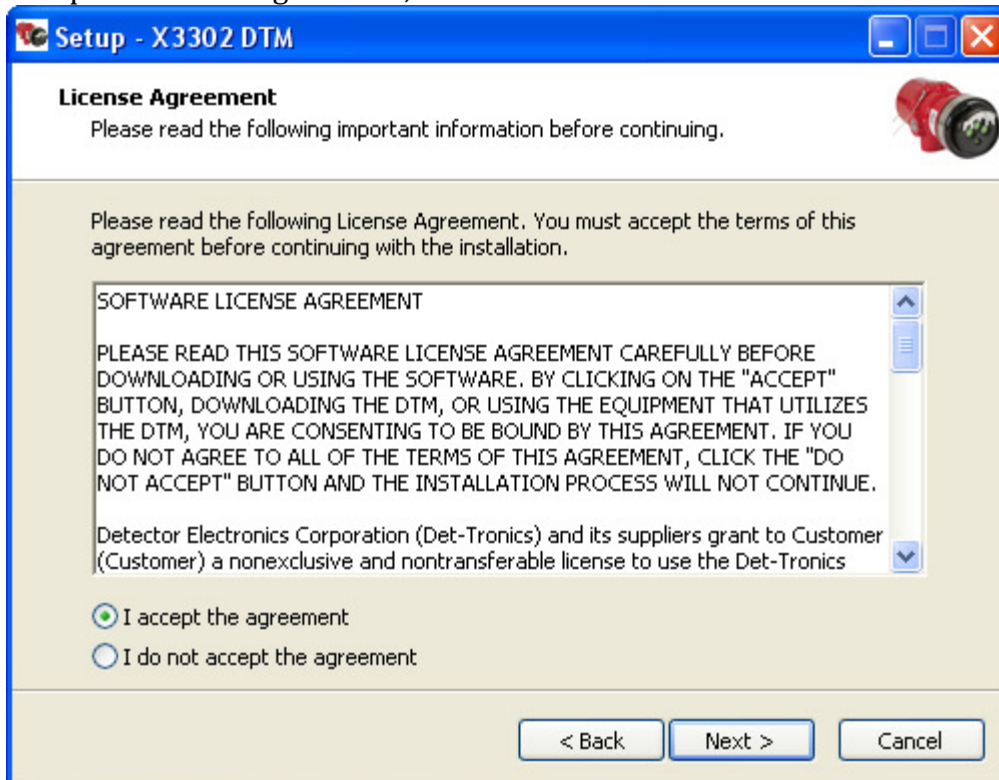
Security warning is Ok, select 'Run':



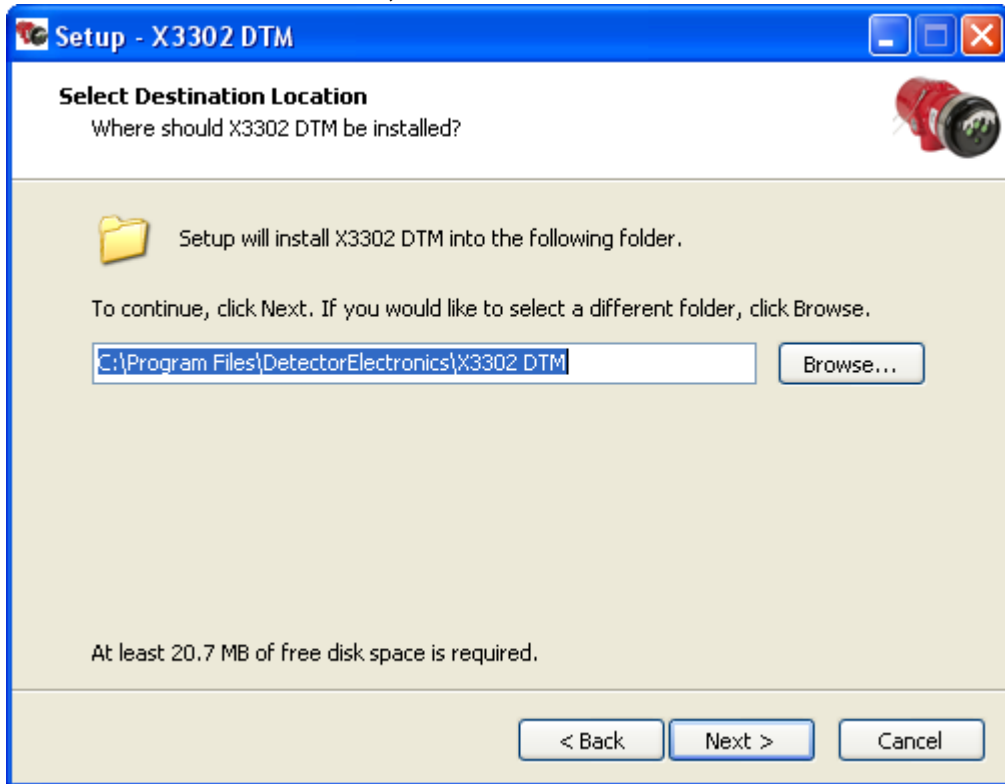
Start the installation wizard, select 'Next':



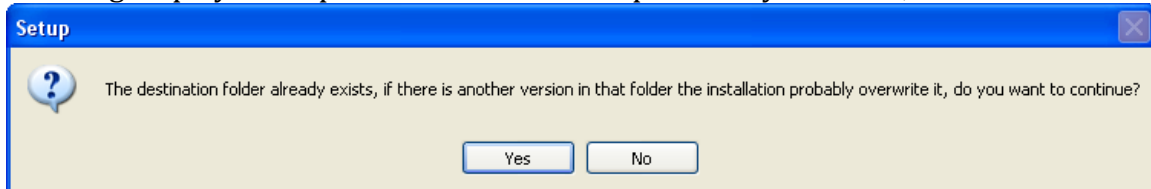
Accept the license agreement, select 'Next':



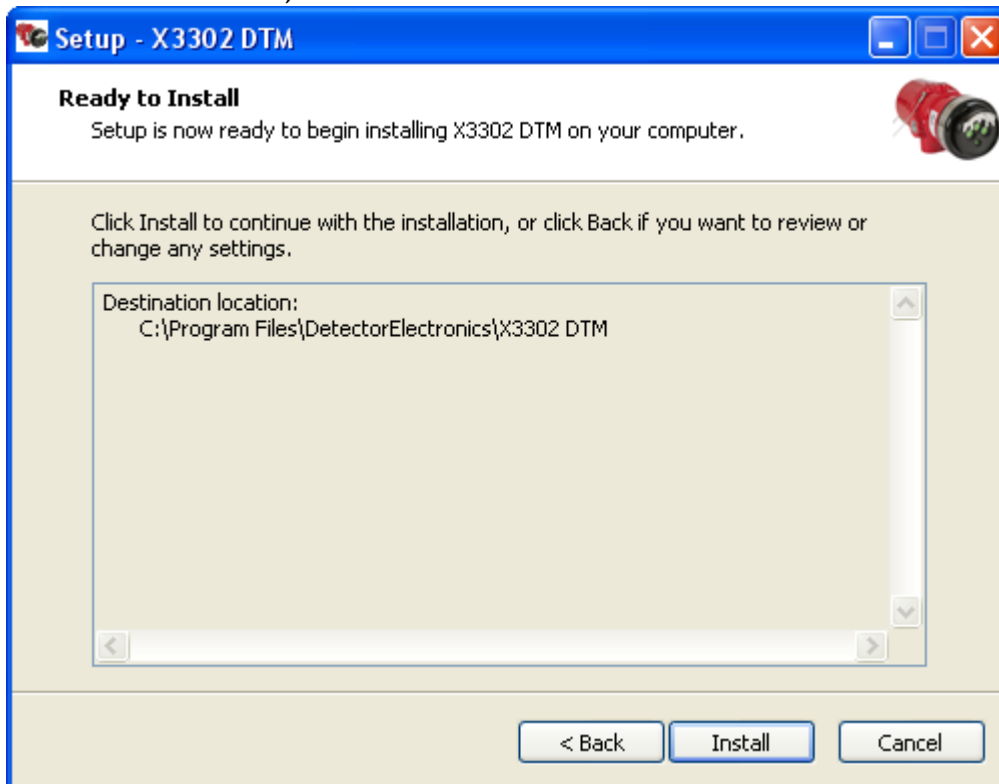
Select the destination folder, select 'Next':



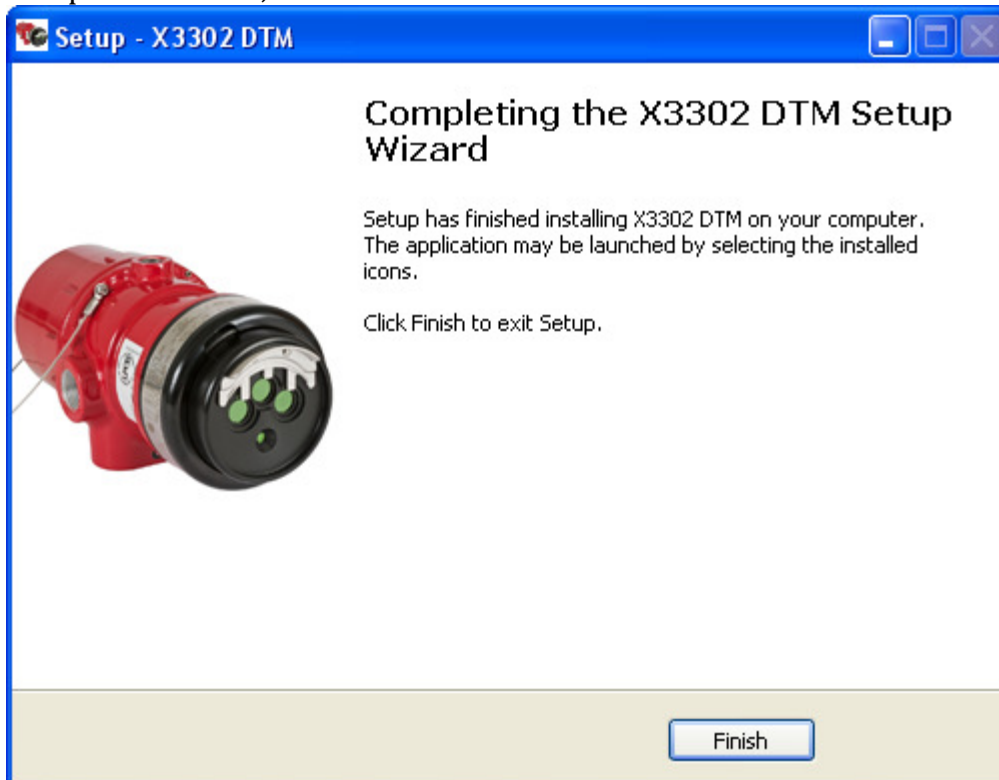
Warning displayed if a prior version has been previously installed, select 'Yes':



Start the installation, select 'Install':



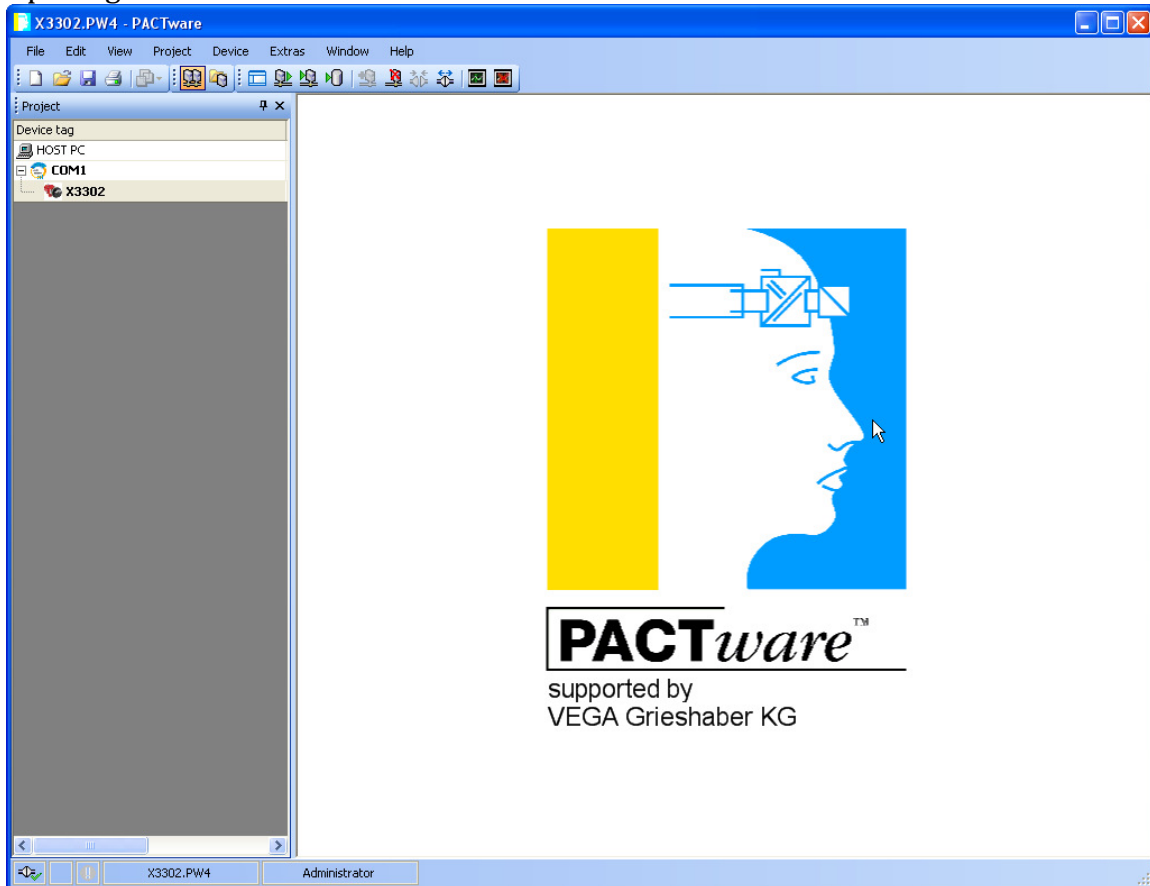
Completion screen, select 'Finish':



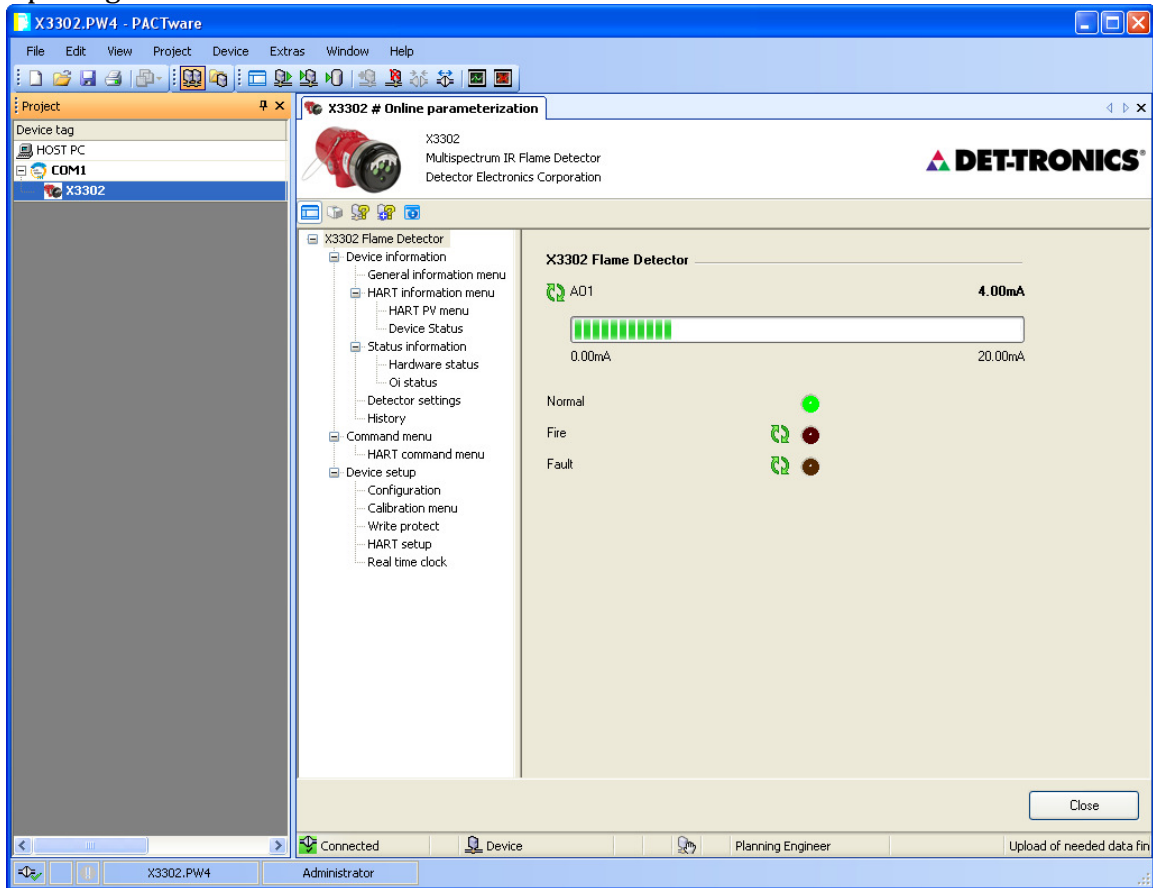
Operation – X3301 Flame Detector

Typical screens displayed with the FDT host connected to a X3302 flame detector. These screens are available after correctly installing both the communication driver and the device driver for the detector. The detector also has been 'connected' (right click, on the X3302 in the project window) which activates the actual host to device communication.

Opening screen:



Opening screen:



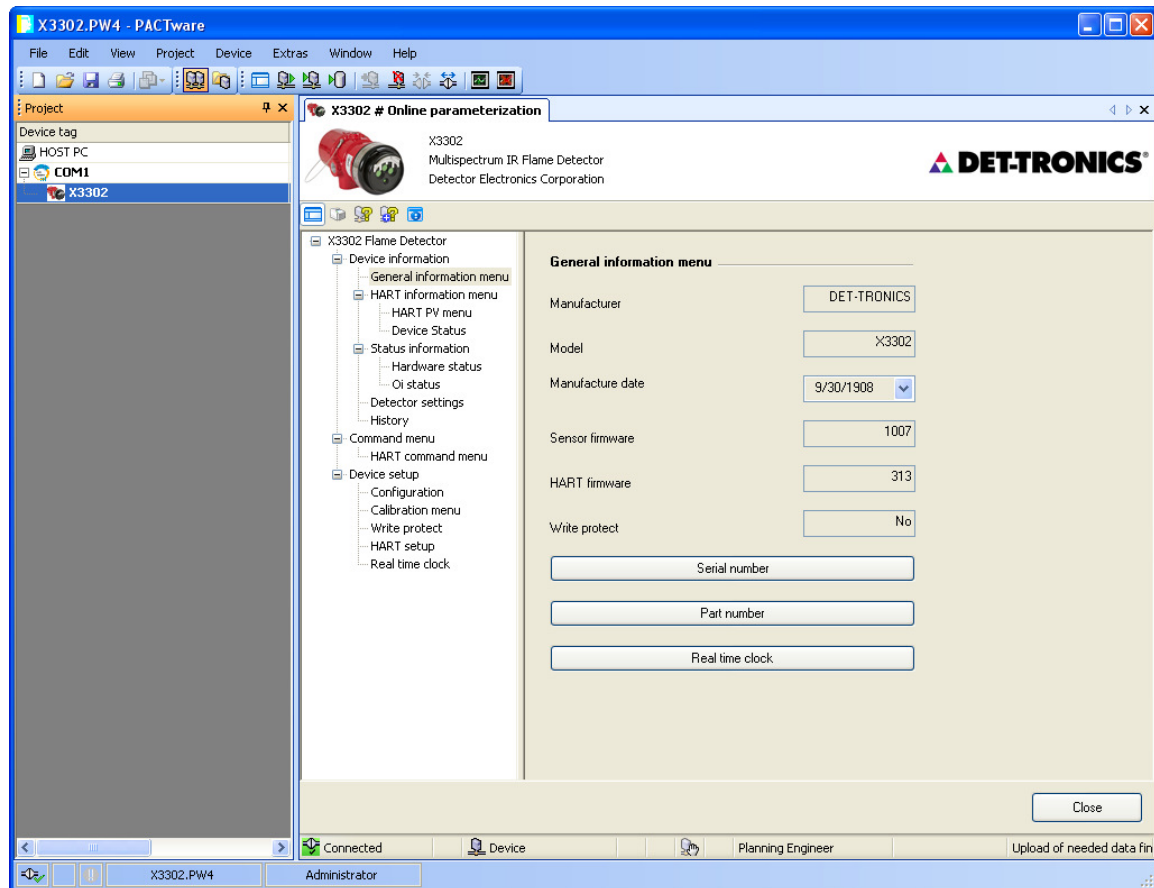
A01 Analog output loop, current value in mA.

Normal Indicates detector is operating without detected fault or fire.

Fire Indicates detector has sensed a fire condition.

Fault Indicates detector has sensed a fault condition.

General information menu:



Manufacturer Name of detector manufacturer.

Model Device model name.

Manufacture date Date on which the detector was manufactured.

Sensor firmware version Sensor board's assigned firmware revision.

HART firmware version HART interface board's assigned firmware revision.

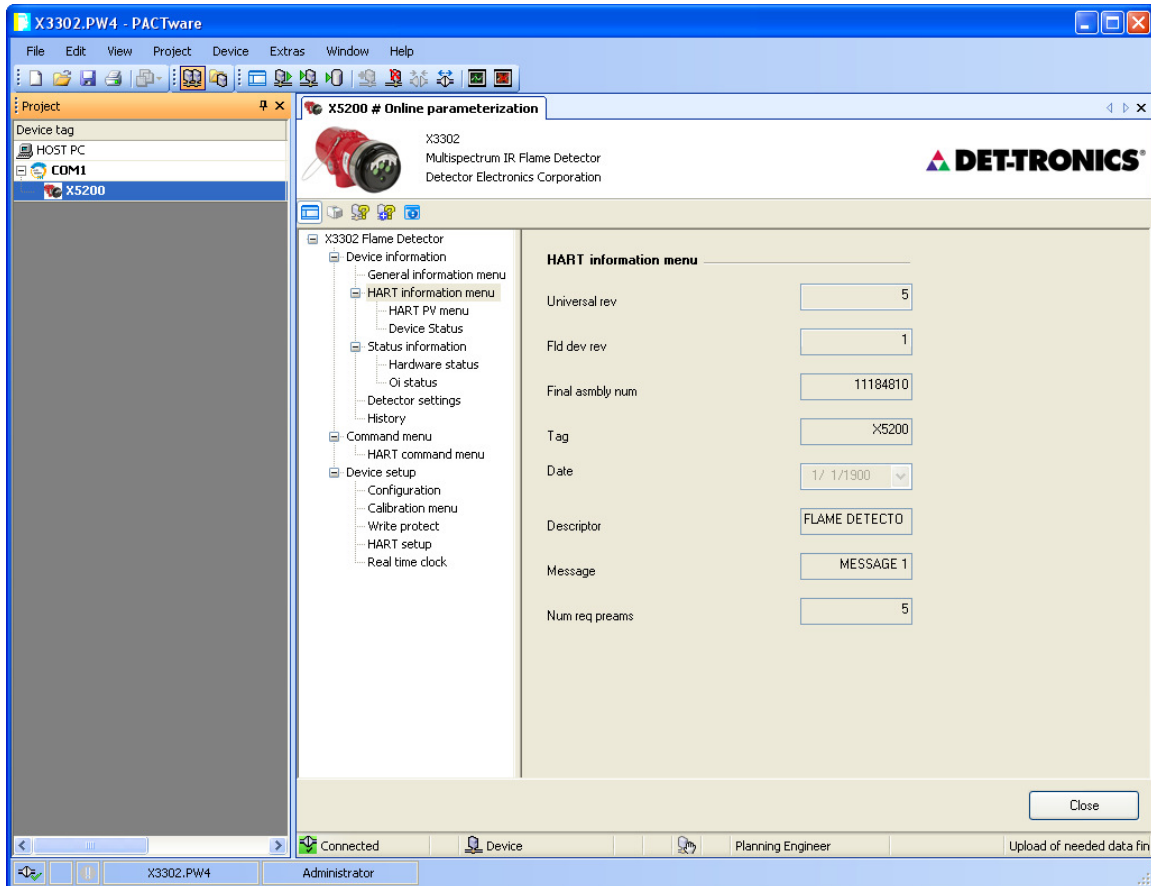
Write protect Status of the write protection within the detector.

Serial number Detector's assigned serial number.

Part number Detector's assigned part number.

Real time clock Command to view the real time clock settings.

HART information menu:



Universal rev HART's universal revision of this device.

Fld dev rev Field device's assigned revision number.

Final Assembly Number User defined number

Tag HART tag currently assigned to detector.

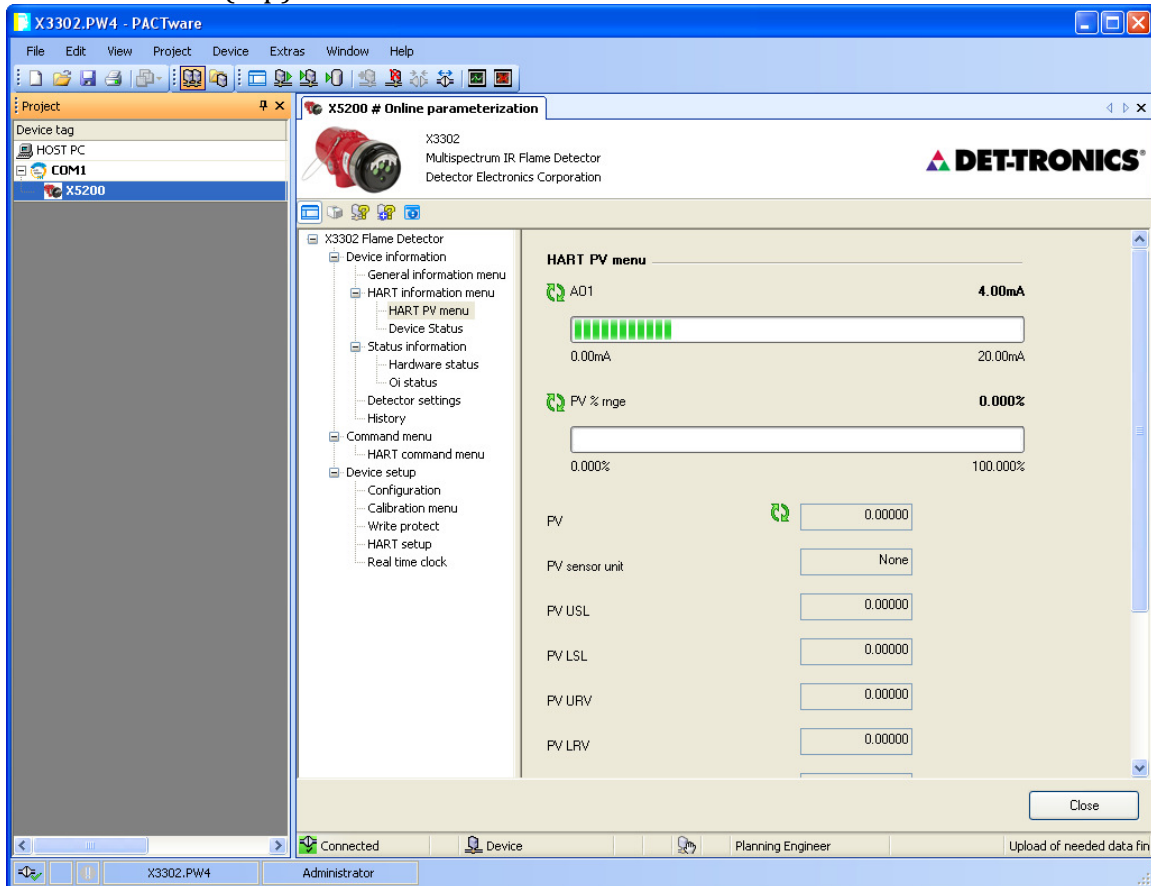
Date User assigned date, typically used to store last calibration.

Descriptor HART descriptor, user defined field.

Message HART message, user defined field.

Num req preams Number of preambles assigned to HART messages.

HART PV menu (top):



A01 Analog output loop, current value in mA.

PV % rng Primary Variable, measured value of the detected event.

PV Primary Variable, measured value of the detected gas concentration.

PV sensor unit Units assigned to the primary variable being detected.

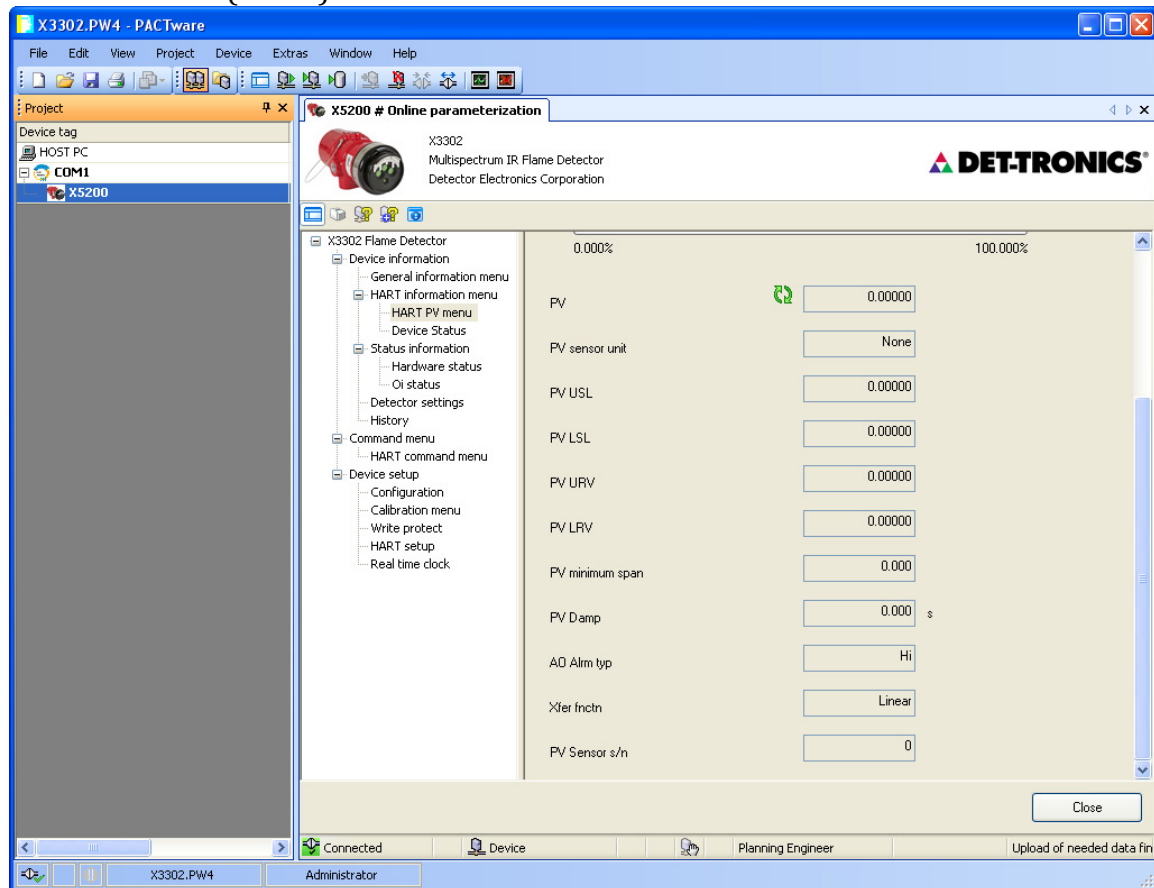
PV URV Primary variable, upper range value.

PV LRV Primary variable, lower range value.

PV USL Primary variable, upper sensor value.

PV LSL Primary variable, lower sensor level.

HART PV menu (lower):



PV Primary Variable, measured value of the detected gas concentration.

PV sensor unit Units assigned to the primary variable being detected.

PV URV Primary variable, upper range value.

PV LRV Primary variable, lower range value.

PV USL Primary variable, upper sensor value.

PV LSL Primary variable, lower sensor level.

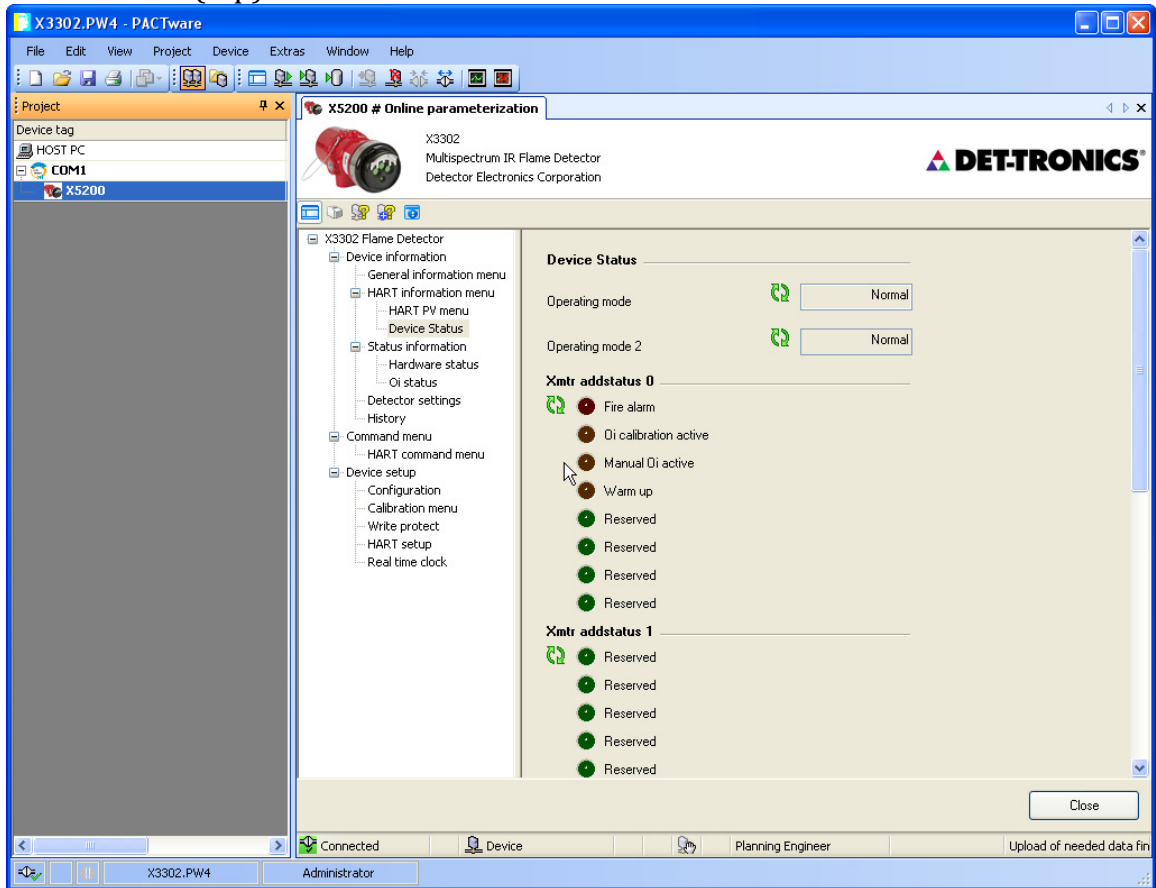
PV minimum span Reserved.

PV damping Reserved.

AO alm typ Analog output alarm type.

Xfer fnctn Transfer function is always linear.

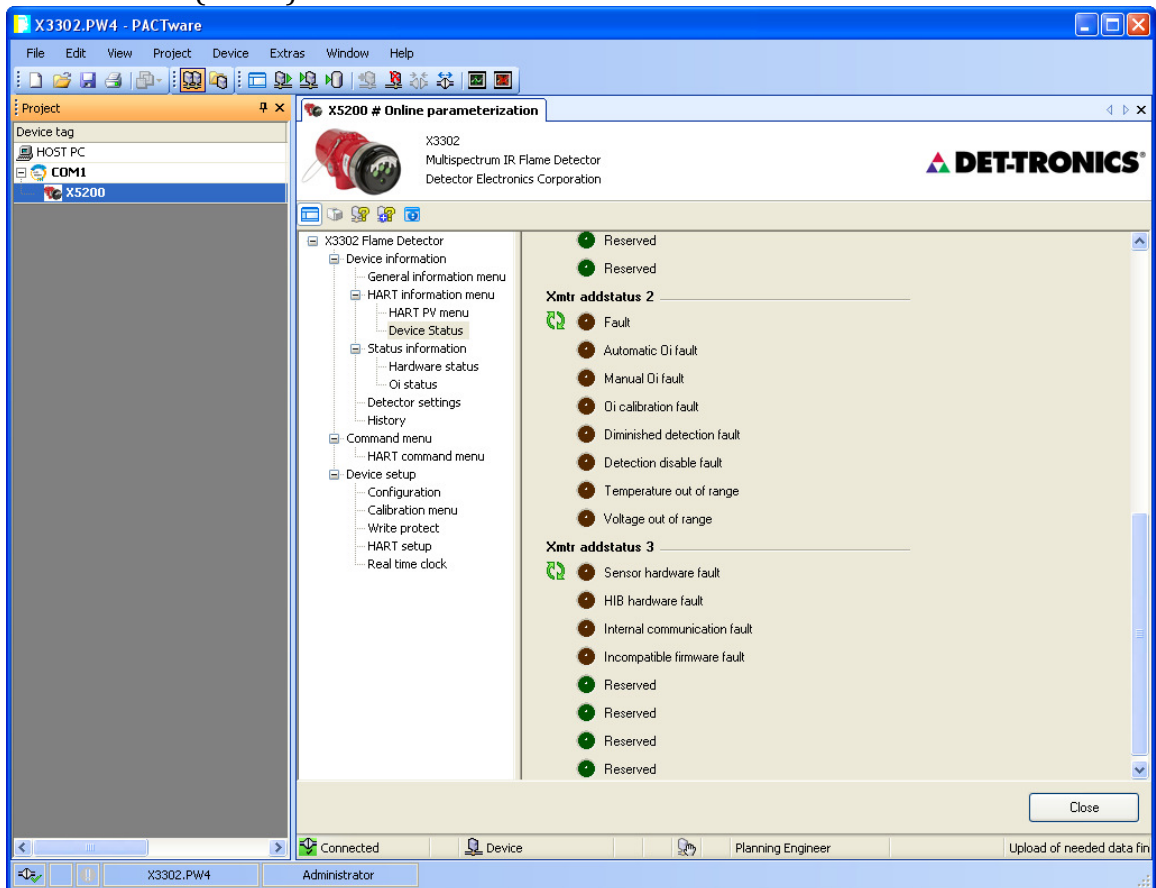
Device status (top):



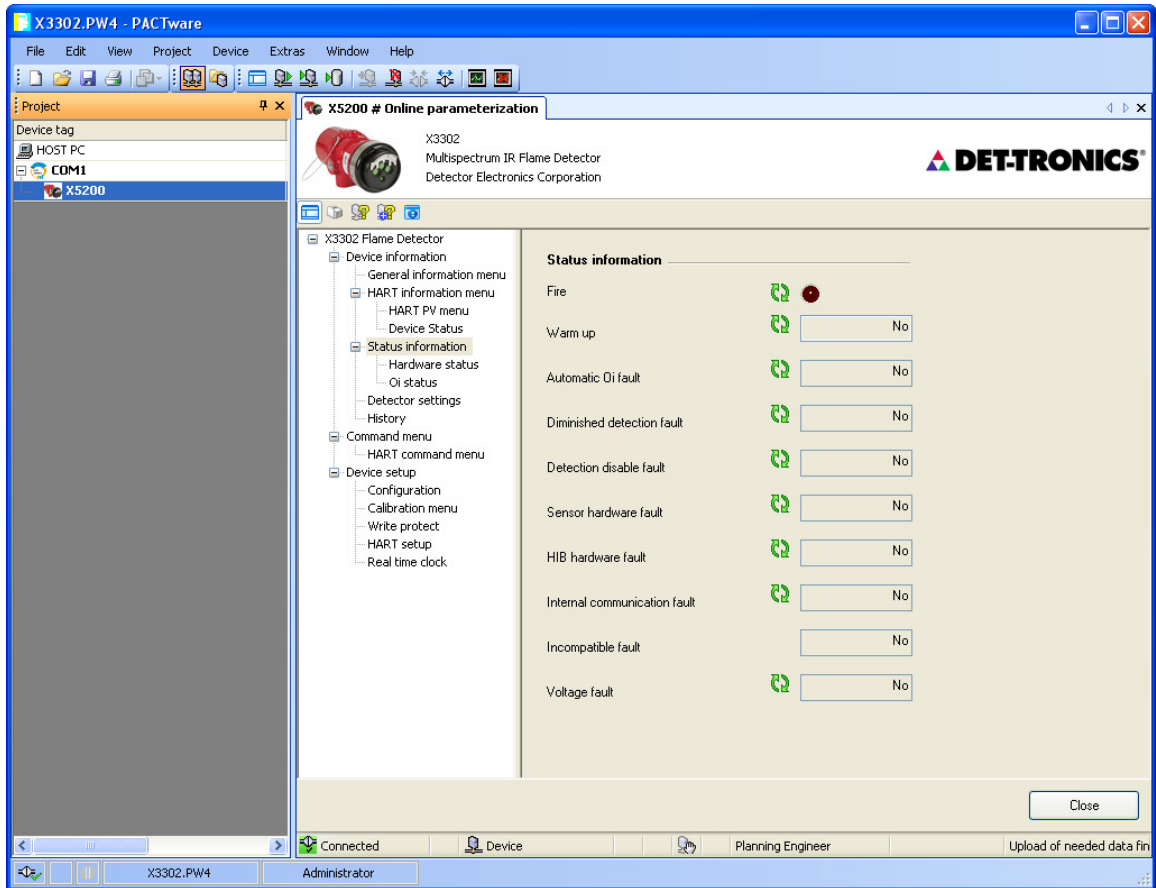
Operating mode Mode of detector operation.

Operating mode 2 Additional mode of detector operation.

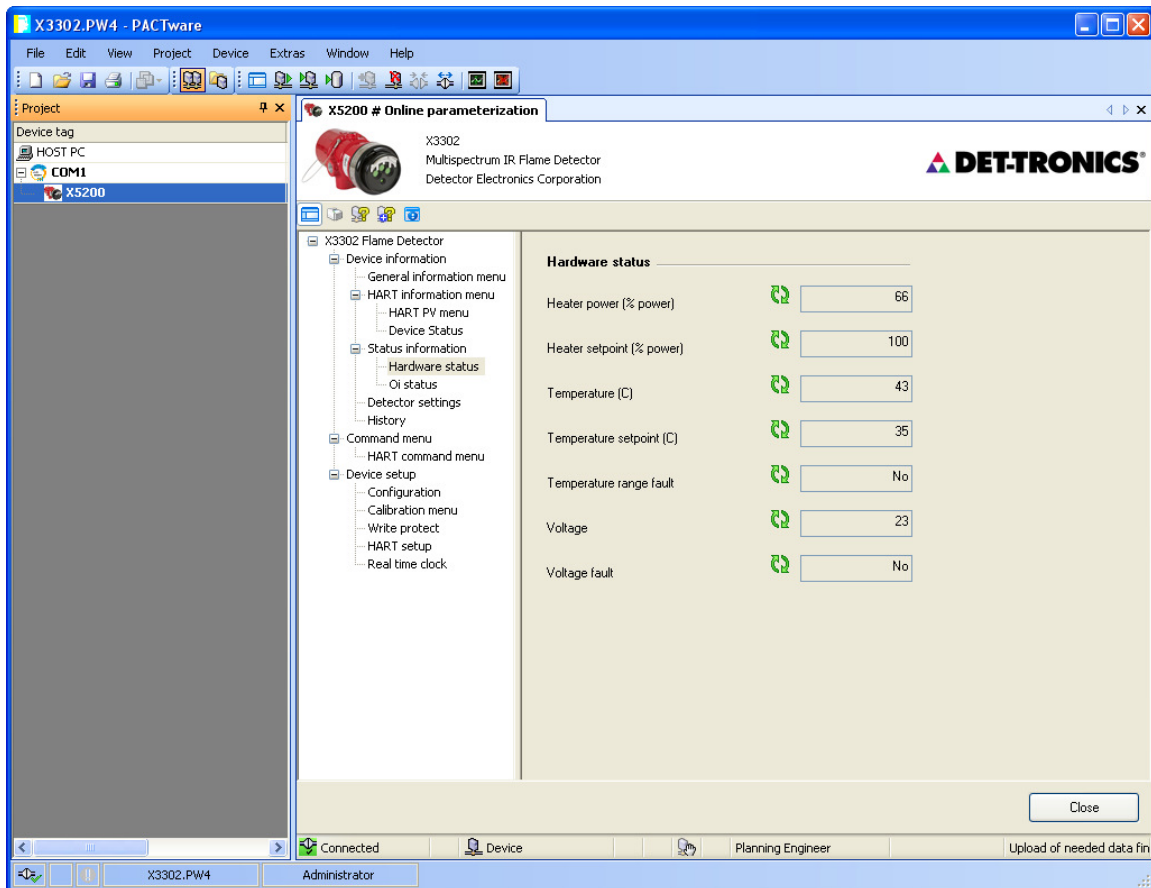
Device status (lower):



Status information:

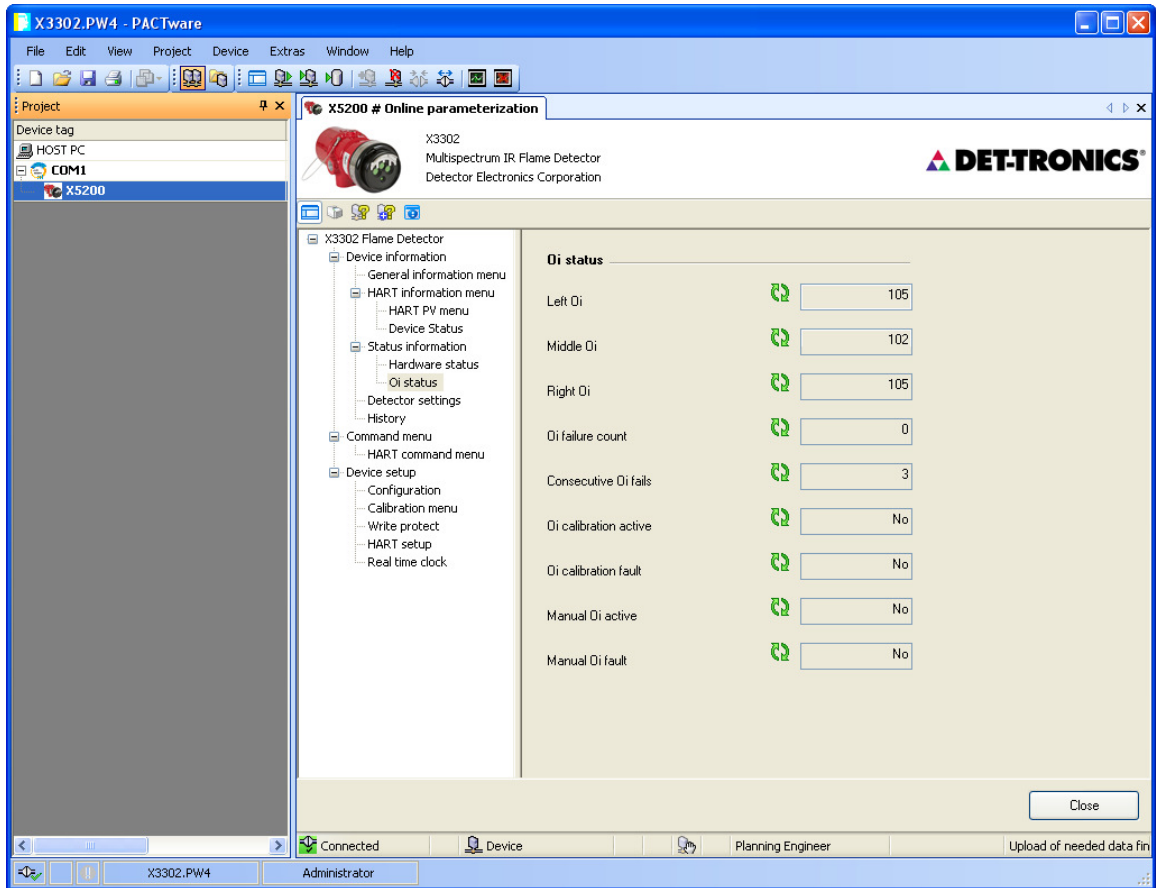


Hardware status:

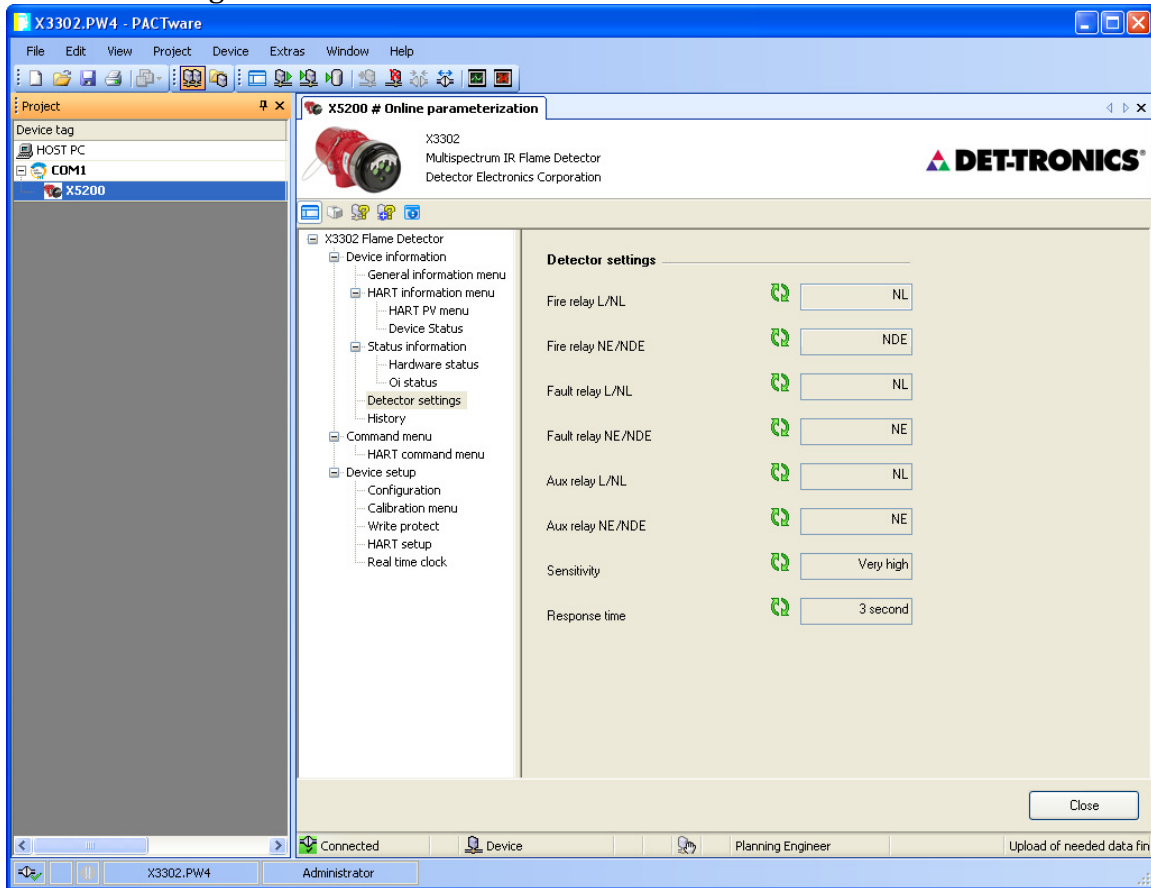


- Heater power Indicates % power of the heater.
- Heater setpoint Indicates current setting of heater % power.
- Temperature Indicates current temperature in degree C.
- Temperature setpoint Temperature setting in degree C.
- Temperature range fault Indicates temperature out of range.
- Voltage Indicates input voltage in volts dc.
- Voltage fault Indicates a power supply voltage fault.

Oi status:



Detector settings:



Fire relay L/NL Indicates latching state of fire relay.

Fire relay NE/NDE Indicates enable state of fire relay.

Fault relay L/NL Indicates latching state of fault relay.

Fault relay NE/NDE Indicates enable state of fault relay.

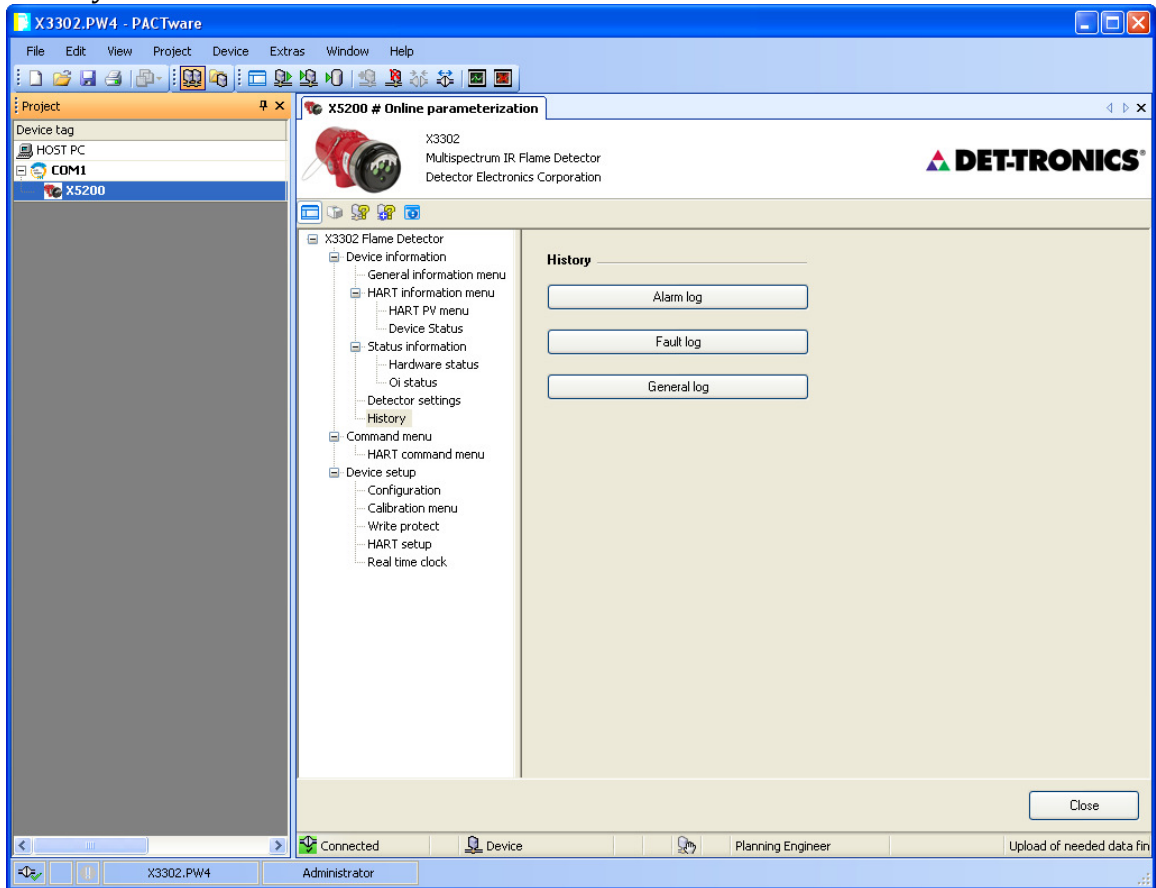
Aux relay L/NL Indicates latching state of aux relay.

Aux relay NE/NDE Indicates enable state of aux relay.

Sensitivity Setting of detector sensitivity.

Response time Setting of the detector's response time.

History:

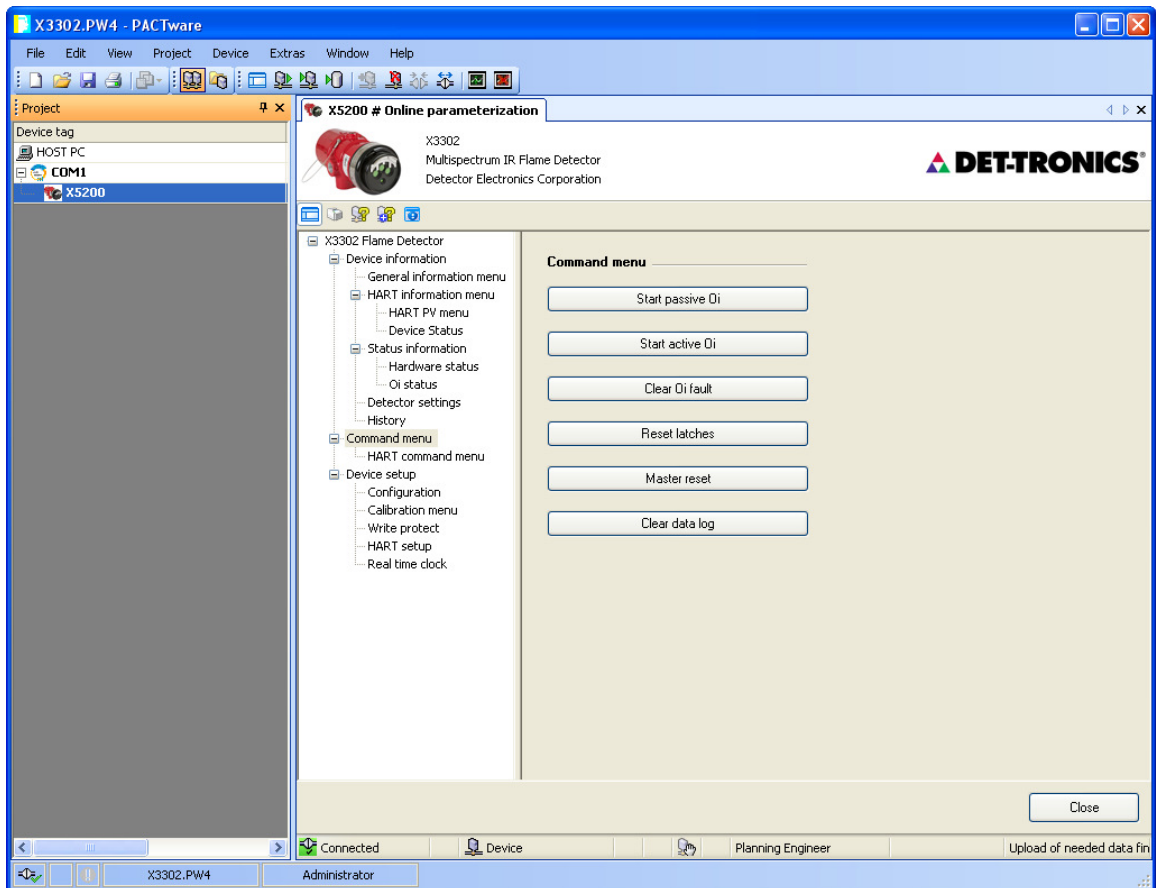


Alarm log Log data of alarm events.

Fault log Log data of faults events.

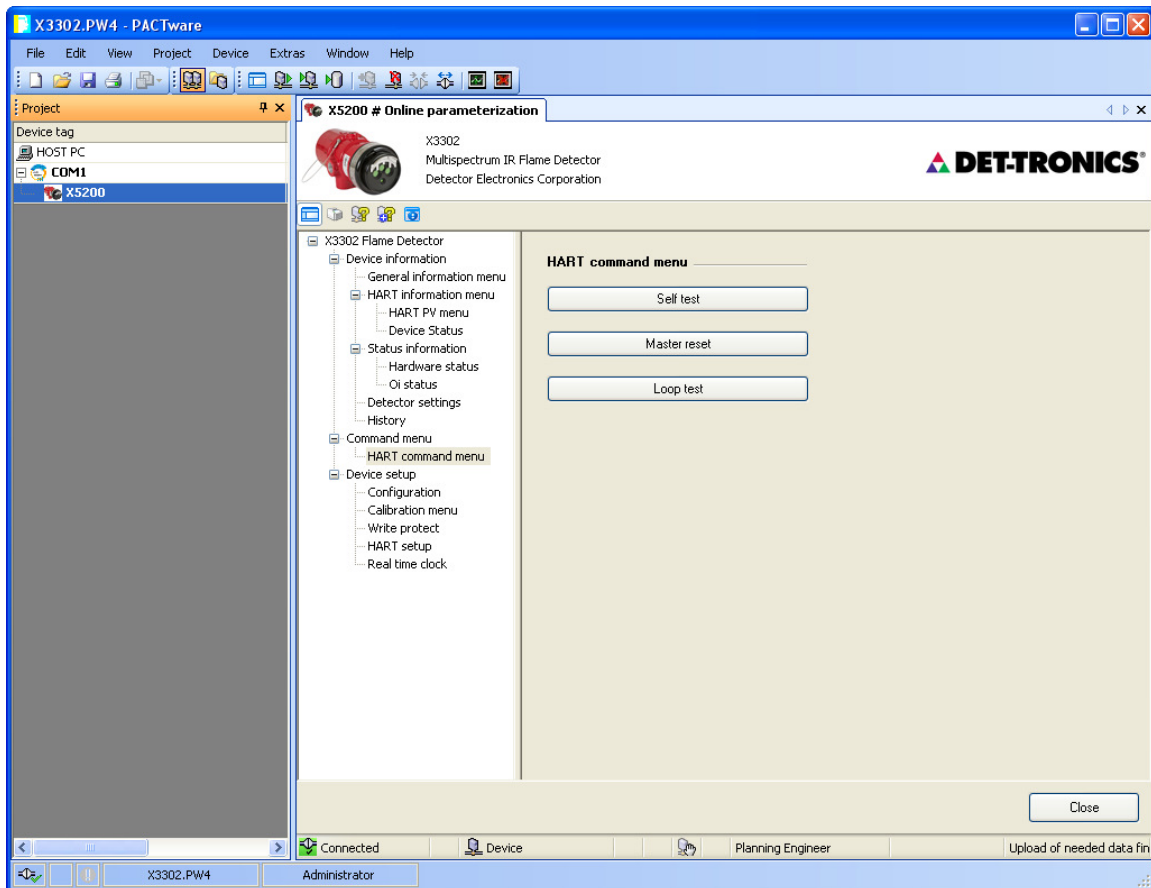
General log Log data of general events.

Command menu:



Start passive Oi	Command to start the passive Oi diagnostic.
Start active Oi	Command to start the active Oi diagnostic.
Clear Oi fault	Command to clear a previously detected Oi fault.
Reset latches	Command to clear latched relays.
Master reset	Command to reset the detector.
Clear data log	Command to clear the detectors data logs.

HART command menu:

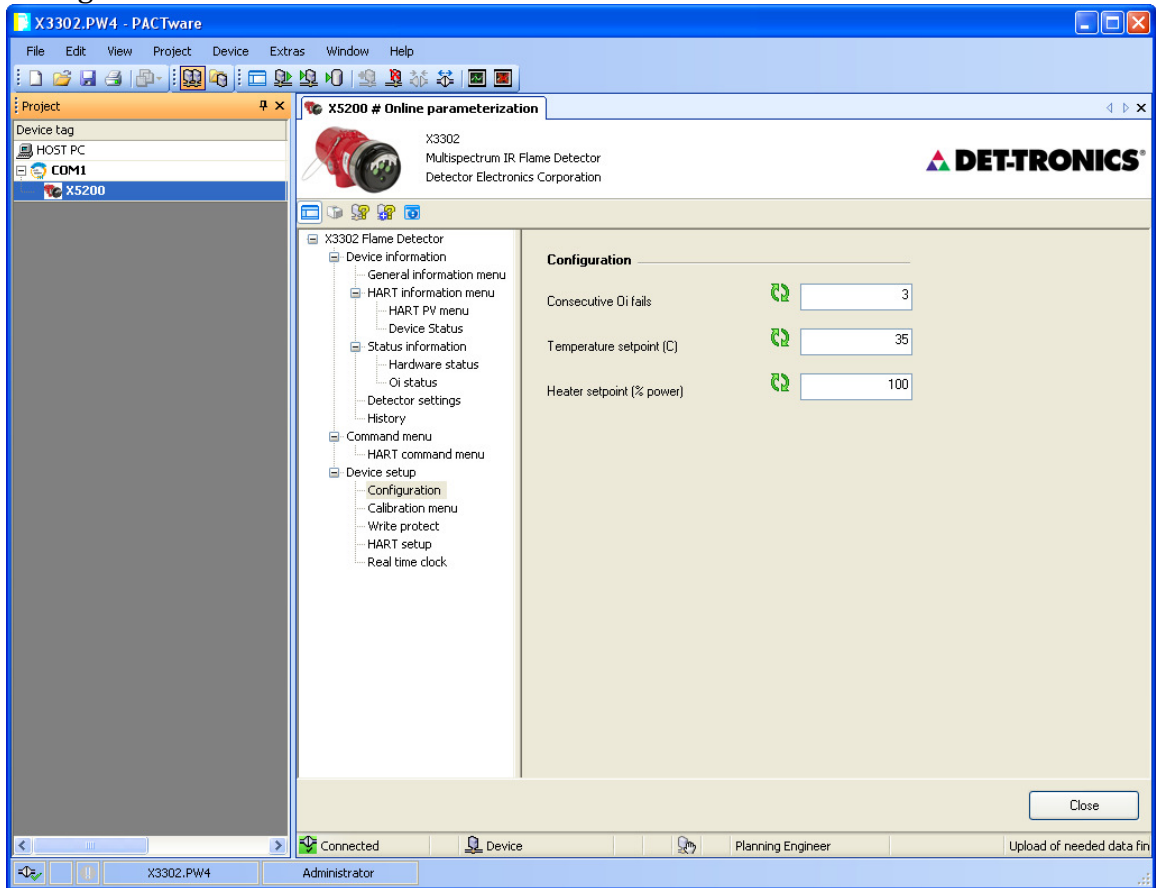


Self test Diagnostic to return internal background memory test results.

Master reset Command to reset the detector.

Loop test Diagnostic to force the 4-20mA current loop to a specific test value.

Configuration:

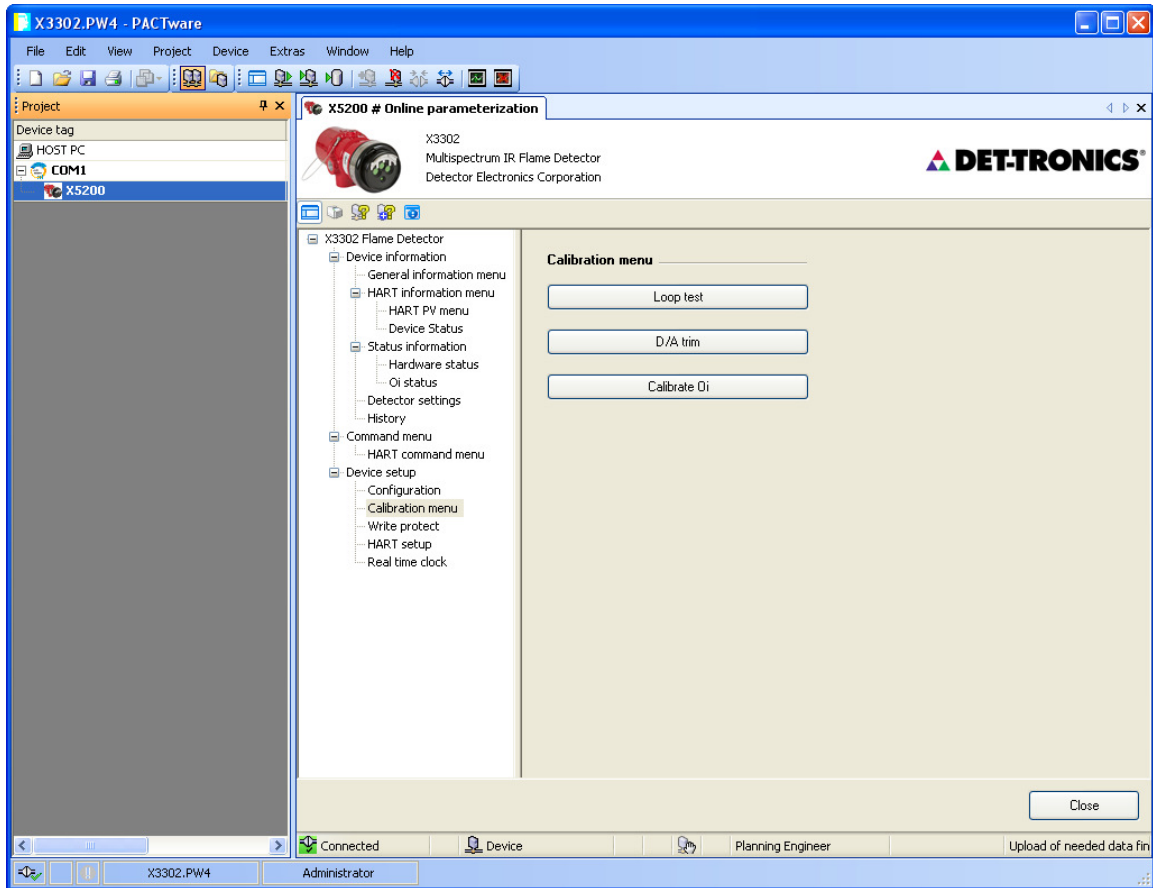


Consecutive Oi failures Setting for consecutive Oi failures.

Temperature setpoint Temperature setting in degree C.

Heater setpoint Indicates current setting of heater % power.

Calibration menu:

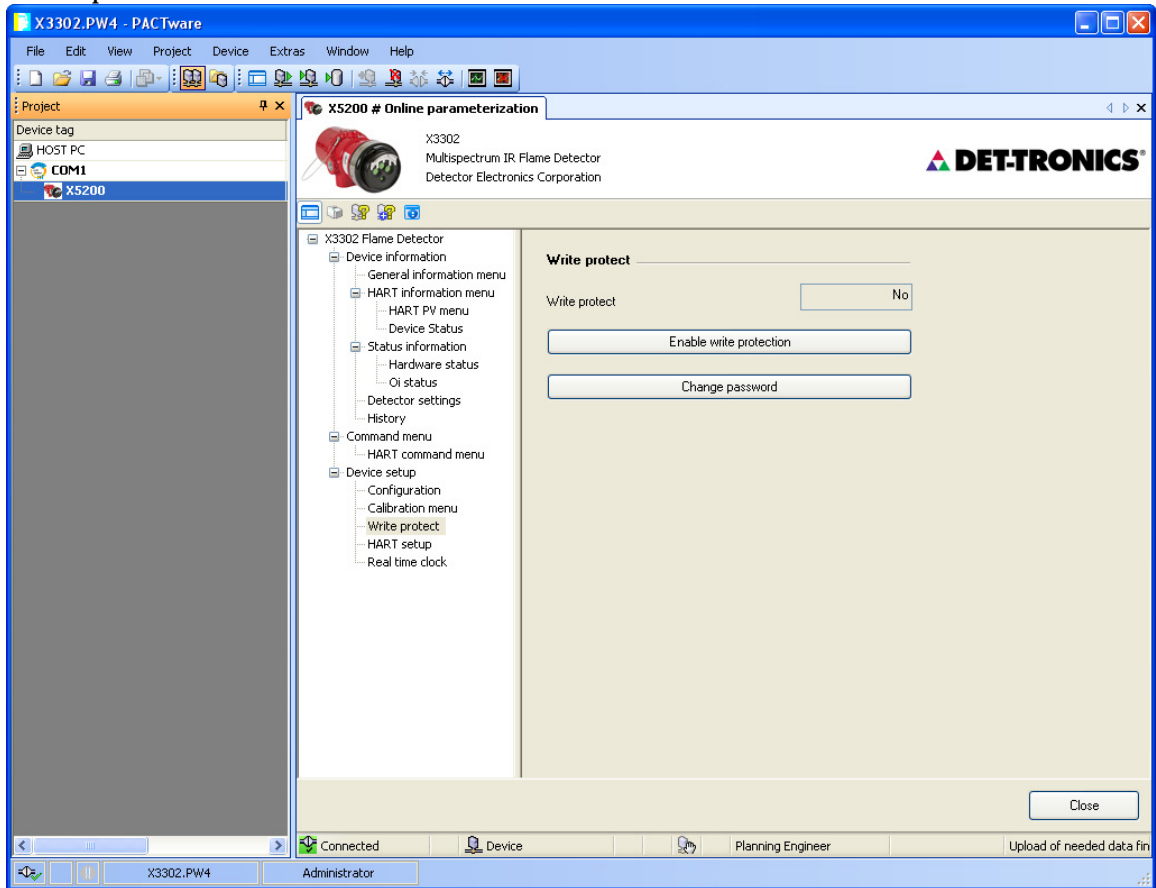


Loop test Diagnostic to force the 4-20mA current loop to a specific test value.

D/A trim Perform a 4-20mA current loop calibration.

Calibrate Oi Command to perform an Oi calibration.

Write protect:

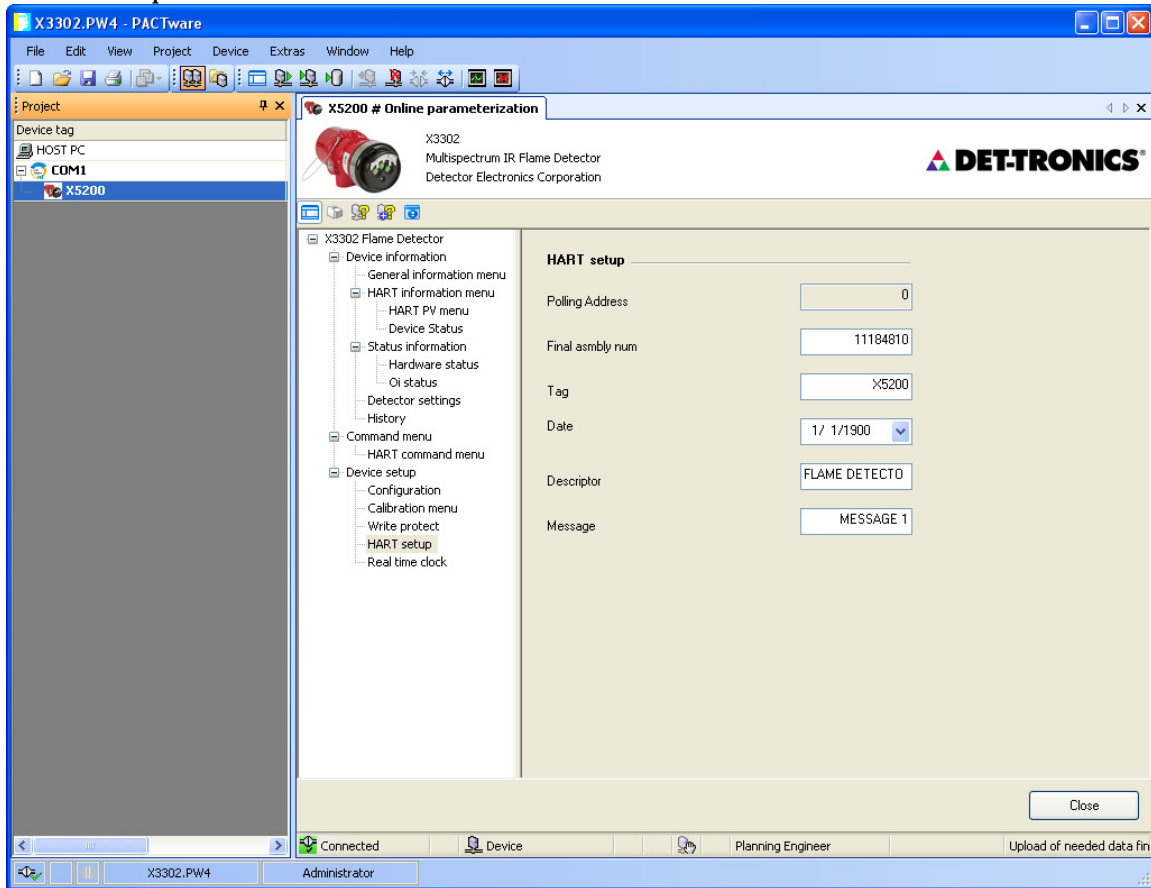


Write protect Current setting of the write protection logic.

Enable write protection Command to change write protect of detector.

Change password Command to change write protect password.

HART setup:



Polling address HART polling addressed currently assigned to this detector.

Final Assembly Number User defined number

Tag HART tag currently assigned to detector.

Date User assigned date, typically used to store last calibration.

Descriptor HART descriptor, user defined field.

Message HART message, user defined field.

Real time clock:

