ABB MEASUREMENT & ANALYTICS | RELEASE NOTES

Spirit^{IT} Flow-X

Gas USC application

Gas_USC v3.1.0 (June 2023)

The Gas_USC version 3.1.0 application has been released in June 2023.

This application requires Flow-Xpress 3.2.6 or later.

The Gas_USC application is released in three different variations:

- **Gas_USC_Master_3.1.0.fxm**
  Application for single run flow computers (e.g. X/C, X/M) and multiple run flow computers (e.g. X/P2, X/P3 etc.) running one run per module.

- **Gas_USC_Master_3.1.0_2runs.fxm**
  Application for version 2 flow computers with 2 runs (e.g. X/C, X/M, X/P1).

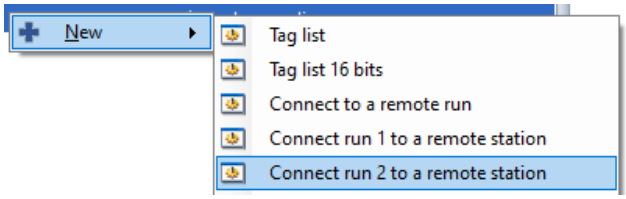
- **Gas_USC_Master_3.1.0_4runs.fxm**
  Application for version 2 flow computers with 3 or 4 runs (e.g. X/C, X/M, X/P1).

New Features/Changes

Besides the features and changes described below, this release also contains around 35 minor improvements and bug-fixes.

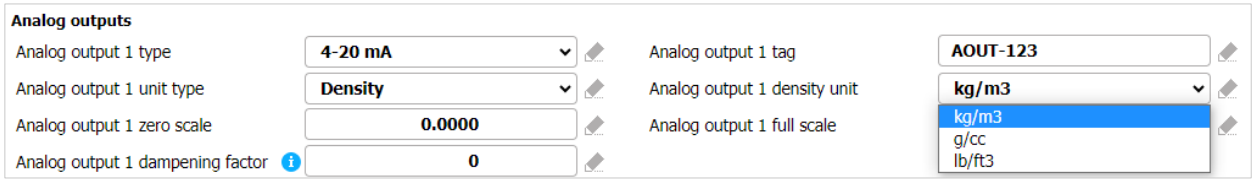
For a complete list of changes please contact ABB.

Use second run of remote flow computer as remote run
In previous versions, a remote run could only be the first (or only) run of a remote flow computer. From this version, it's also possible to connect to the second run as well.



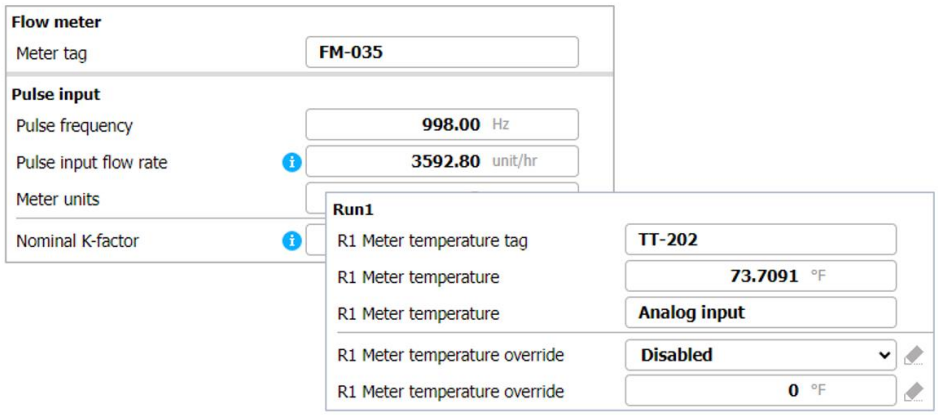
Configurable analog output units

Formerly, analog output configuration was only possible using native application units (e.g. °F for temperature, lb/ft3 for density, MCF/hr for volume flow rate). Now analog outputs can also be configured using non-standard units (similar to the configuration of analog inputs). As the flow computer does the unit conversion, it's not needed anymore to manually convert the zero and full scale factors.



Meter / transmitter tags shown on all operator displays

Meter tags / transmitter tags have been added to all applicable operator displays for easier interpretation:



Support of new devices

The following Modbus drivers have been added:

- ABB PGC 5000 gas chromatograph
- Pietro Fiorentini FioSonic ultrasonic flow meter

Gas_USC v3.0.0 (September 2021)

The Gas_USC version 3.0.0 application has been released in September 2021.

This application requires Flow-Xpress 3.2.0 or later.

The Gas_USC application is released in three different variations:

- **Gas_USC_Master_3.0.0.fxm**
  Application for single run flow computers (X/C, X/M, X/P1) or multiple run flow computers (one run per module).

- **Gas_USC_Master_3.0.0_2runs.fxm**
  Application for version 2 flow computers with 2 runs (X/C, X/M, X/P1).

- **Gas_USC_Master_3.0.0_3runs.fxm**
  Application for version 2 flow computers with 3 runs (X/C, X/M, X/P1).

No 'abbreviated' version (for version 1 multiple run flow computers) has been released.

New Features/Changes

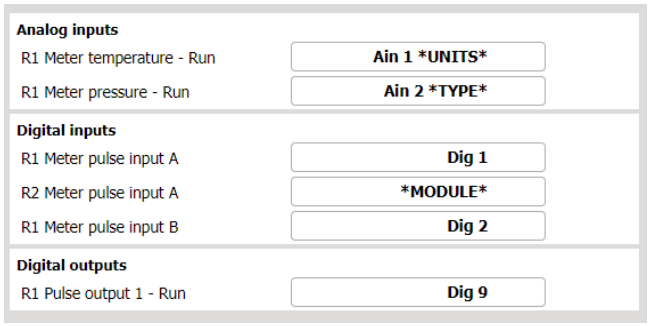
Starting from this version 3.0.0, the Gas_Metric and Gas_USC applications are released together and, except for the different native units, share the same functionality.

New menu structure for improved ease of configuration

Configuration has been made easier, using a more intuitive menu structure. All configuration parameters are now collected within one configuration menu which can be followed top down to configure the complete flow computer. **Furthermore, c**onfiguration displays have been optimised, hiding all non-applicable settings and thus avoiding confusion as much as possible.

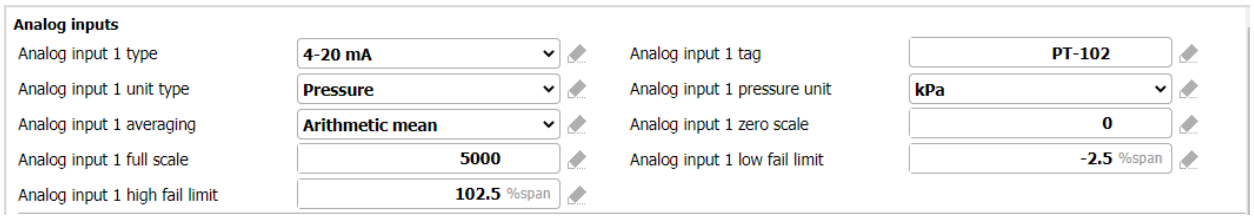
Improved 'IO assignment' display.

The 'IO assignment' display, which provides a complete overview of all assigned IO, now also shows configuration errors like 'incorrect input type', 'incorrect module', 'incorrect unit' etc.



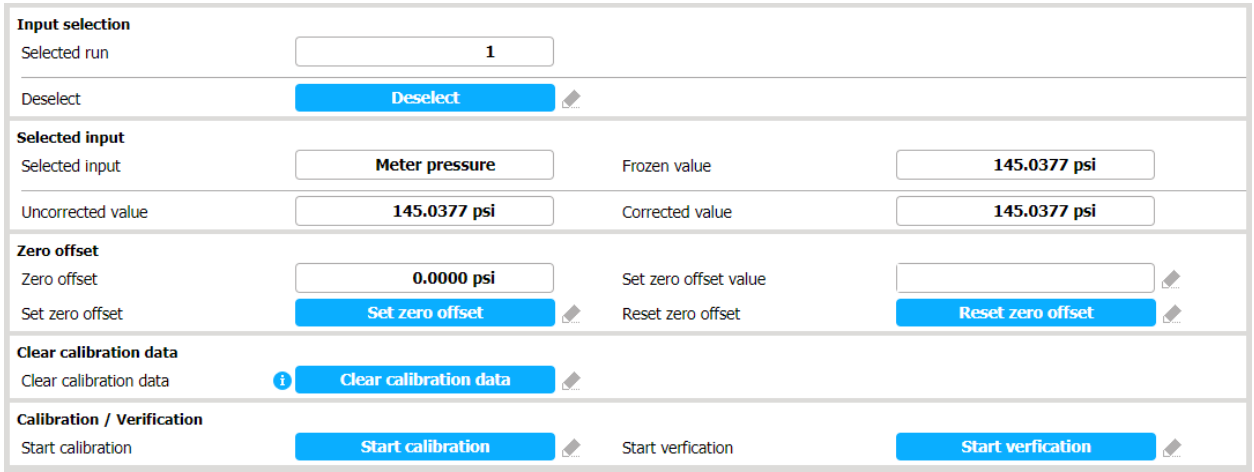
Support of non-standard transmitter units

Now transmitters with non-standard units (like pressure transmitters in kPa, or temperature transmitters in °C / °F) can be easily used, making use of the new capability to convert the input into the right units.



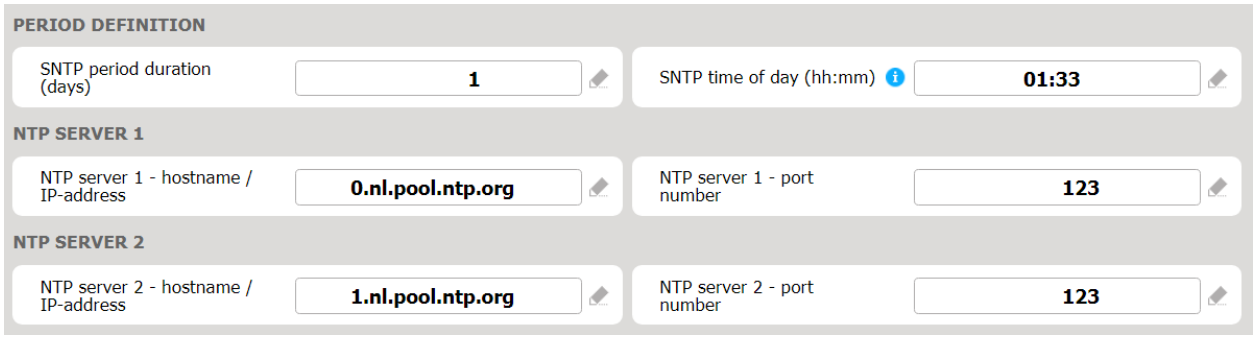
New calibration / verification procedure

The application is provided with a new, extended procedure for calibration, verification and zeroing of process inputs, analog inputs, PT100 inputs, analog outputs and multivariable transmitters. Selection is by 'Meter run' (for process inputs) or by 'IO module' (for IO points). Inputs selected for calibration, verification or zero offset adjustment can be frozen before the calibration is started. Up to 5 calibration and up to 8 verification points are supported. Calibration results are stored at the end of the calibration sequence and a calibration / verification report is generated.



SNTP Time Synchronization

From this application version, the Flow-X supports time synchronization with one or more NTP time servers. Both servers on local networks and on the Internet are supported. It's possible to configure communication with up to four separate NTP servers.


PERIOD DEFINITION
SNTP period duration (days)
1
SNTP time of day (hh:mm)
01:33
NTP SERVER 1
NTP server 1 - hostname / IP-address
0.nl.pool.ntp.org
NTP server 1 - port number
123
NTP SERVER 2
NTP server 2 - hostname / IP-address
1.nl.pool.ntp.org
NTP server 2 - port number
123