Application Note

Simple and fast configuration of input channels with the Sensor Catalogue

Touchpoint Pro' pre-loaded Sensor Catalogue will significantly reduce system configuration time and cost

Each Touchpoint Pro Controller is loaded with a Sensor Catalogue, which contains all of Honeywell Analytics' gas sensors, each with a full set of configuration parameters.

Over 500 gas sensors from more than 30 Honeywell Analytics fixed gas detectors are listed in the Sensor Catalogue.

When a customer is using the Sensor Catalogue, the Analogue Input Channels (Analogue Input Modules (AIM) 4-20 mA and AIM mV Bridge), can be commissioned and configured with the default settings from the Honeywell Analytics Sensor Catalogue.

Only the Channel ID, the Channel Location Tag and the Channel Custom ID must be programmed using the User Interface, via the touchscreen or the PC Configuration Software.

Then the "Field Device Name" and the "Sensor Name" can be selected from the list of available field devices and available gases and ranges. The rest of the configuration will be loaded automatically.

The detailed table below shows all the parameters that are built into the Sensor Catalogue. As an example of a full default configuration, the Sensepoint XCD IR Gas Transmitter with a flammable gas sensor is used below.

The full configuration of the Analogue Input Channel can be viewed afterwards, and it is possible to edit individual settings if required.

Parameter Name	Example of a Gas Sensor Default Setting	Explanation of the Parameter Name
Field device	Sensepoint XCD IR Gas Transmitter	Name of the transmitter or sensor type
Sensor name	Flammable 0-100%LEL	Name of the sensor
Gas name	Flammable	Gas name formula
Unit	% LEL	Gas unit; e.g. %LEL, %UEG, ppm, etc.
Signal range max	20	Shown in mV or mA depending on the sensor type; reflecting 100% of the full scale
Gas range max	100	Reflects 100% of the full scale
Alarm 1 level	20	Default value of transmitter or recommended value
Alarm 2 level	40	Default value of transmitter or recommended value
Alarm 3 level	0	Default value of transmitter or recommended value
LTEL alarm level	0	Long Term Exposure Limit
STEL alarm level	0	Short Term Exposure Limit; the time is configurable; with a minimum of 10 minutes
Rate alarm level	5	The Rate Alarm is the alarm which will be activated if the gas concentration rises e.g. by 5% of the full scale within 1 second (default configuration)
Rate alarm interval	1	The Rate Alarm is the alarm which will be activated if the gas concentration rises e.g. by 5% of the full scale within 1 seconds (default configuration)
Inhibit delay time	0	Reflects the warm-up time after power-on or field wiring faults: configurable from 0 to 3000 s
Signal under range limit	0.7	Threshold for the signal under range fault in mA or mV

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Simple and fast configuration of input channels with the Sensor Catalogue continued...

Parameter Name	Example of a Gas Sensor Default Setting	Explanation of the Parameter Name
Signal over range limit	22	Threshold for the signal over range fault in mA or mV
Gas under range limit	-24	Threshold for the gas under range fault in gas units e.g. %LEL
Gas over range limit	106	Threshold for the gas over range warning in gas units e.g. %LEL
Inhibit level max	2.1	Inhibit (also known as disabled) indicated by the transmitter; upper range in mA
Inhibit level min	1.9	Inhibit (also known as disabled) indicated by the transmitter; lower range in mA
Custom transmitter fault 1 enable	1	Enable means that a specific fault or warning condition is programmed for the transmitter
Custom transmitter fault 1 level max	1.1	The upper limit of the transmitter specific fault or warning level in mA
Custom transmitter fault 1 level min	0.9	The lower limit of the transmitter specific fault or warning level in mA
Custom transmitter fault 1 definition	1	0 means fault, 1 means warning
Custom transmitter fault 1 name	XCD Fault	This is the description for the specific fault or warning indicated by the transmitter
Maximum zero signal	5	Maximum allowed signal value (mA or mV) for the zero calibration
Minimum zero signal	3	Minimum allowed signal value (mA or mV) for the zero calibration
Maximum span signal	21	Maximum allowed signal value (mA or mV) for the span calibration
Minimum span signal	7	Minimum allowed signal value (mA or mV) for the span calibration
Maximum span gas	100	Maximum allowed Span Gas Concentration
Minimum span gas	30	Minimum allowed Span Gas Concentration
Default span gas	50	Default Span Gas Concentration
Calibration reminder interval	6	Warning (in months) that calibration is due

Table: Default configuration parameters

The Sensor Catalogue is not a static tool. Honeywell Analytics will release new versions to include new products and updates when they become available.

Updating the Touchpoint Pro unit with a new Sensor Catalogue revision is very simple Copy the Sensor Catalogue (.CAB file format) into SD Card.

Log in, click System Configuration and select CCB Management. Click the Firmware update icon and select SD Card. Extract the CAB file and the updated Sensor Catalogue Software will be shown. A restart of the Local HMI is not required.

There is also the option to update the Senor Catalogue by using the PC Configuration Software. A patch installer will be provided whenever there is a change in the Sensor Catalogue. Simple click on the patch file and follow the installation steps.

The electronic version of the Sensor Catalogue (including all future updates) will be available online in the Honeywell Analytics' Touchpoint Pro Team Room.

Honeywell Analytics Gas Detection

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