Basic configuration overview

Displays and controls

Recorder Faceplate

Controller Faceplate

Bar Graph (Indicates deviation of measured value from set point)

Currently Displayed Channel

Process Variable Alarm Status

Alarm Status

Remote Set Point in Use

Manual Control

Auto-tune in Progress

Sideways Scroll

Down Scroll

Raise and Lower

Function Key

Pen Lift

Auto/Manual

Note. All programming is carried out using the faceplate keys and displays.

C1900 recorder and recorder/controller Quick reference guide

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Setting analog input links

Configuring analog inputs

Warning. Ensure that the unit is isolated from all power supplies before removing I/O boards.

Fig. 1 Input Links – Channel 1

2-wire Transmitter
PL8
2 3 4
All Other Input Types

Fig. 2 Input Links – Channels 2 to 4 (If fitted)

mV THC
PL1
5 4 3 2 1
mA V RTD & Resistance

2-wire Transmitter
PL8
2 3 4
All Other Input Types

mV THC
PL1
5 4 3 2 1
mA V RTD & Resistance

Select Channel – Choose the input channel to be configured

Input Type – Select the input type:
- mA, V
- mV
- TC (Thermocouple)
- RTD
- Lo OH (< 750 Ohms)
- Hi OH (> 750 Ohms)

Range High: For a 4 to 20mA current input, set this to 20.00, or for 0 to 5V, set to 5.0. The frame does not appear if TCPL or RTD are used.

Range Low: Set the low end of the electrical input range, e.g. 4.00, for 4 to 20mA, or 0.0 for 0 to 5V.

Units: Select None if the input is not temperature, otherwise select °F or °C.

Engineering Range High: Select the highest engineering value that will be displayed when the input is at its maximum value – e.g. for an engineering range of 0 to 300.0 °F set to 3000.

Decimal Point: Select the decimal point position for the process variable, e.g. 300.0.

Engineering Range Low: Select the lowest engineering value that will be displayed when the input is at its minimum value – e.g. for an engineering range of 0 to 300.0 °F set to 0.0.

Broken Sensor Drive: Determine pen action when the input signal fails: None – pen follows failed input; Up – pen driven to full scale; Down – pen driven to zero scale.

Fault Detection Drive: Determine maximum input travel outside engineering range before an error is detected. E.g. for a 0 to 300°F range, a 10% fault level will trigger at 330°F.

Input Filter: Adjust the instrument response time from 0 to 60 seconds in one second increments to reduce pen jump & dampen out noisy signals.