



Loop Isolators, Transmitters, Trip Alarm Monitors

- Reduced Stock-holding • Minimum calibration • High reliability • Ease of use

Product Overview

OMNIFLEX offers a wide range of signal conditioning capability in a surprisingly small range of products. This is the direct result of the attention paid to lowering the cost of ownership of your signal conditioning. At a quick glance, most signal conditioning modules look the same. But if you are going to choose a product range you need to consider these factors:

- Installation Costs
- Re-calibration Costs
- Plant Safety
- Spares Stock Holding
- Reliability

Each of these factors has been taken into account in the design of the OMNITERM 'B' series range. Select a solution from the following product groupings to meet your performance and budget requirements:

Loop Isolators

The elimination of ground loops in your analogue 4-20mA signal loops is the key to reliable and accurate measurements. There are OMNITERM products that solve these system problems, whether you just need to isolate a transmitter from its power source, or whether you need to split the loop into two for the addition of data acquisition or monitoring.

Signal Transmitters

The latest "sigma/delta" conversion technology combined with full software configurability makes these OMNITERM products the most accurate and versatile in their class.

Inputs:

- Thermocouples
- Resistance (RTD's)
- milliVolts
- Frequency
- dc voltage
- dc current
- ac voltage
- ac current

Outputs:

- dc Voltage (bipolar)
- dc Current (bipolar)
- Pulses

Limit Alarms / Trip Amplifiers

A range of alarm modules are available from simple limit alarms with manually adjustable set-points to software configurable units capable of rate-of-change alarming direct from the sensor input.

Computation

These modules are designed to solve those tricky special functions required in certain processes, where the sensors require to be conditioned according to a more complex mathematical formula. Available functions include deviation, addition, subtraction, multiplication, linearization, rate-of-change, peak, valley, ratio, track-and-hold, etc.

Power Supplies

The POWERTERM range of instrument power supplies are designed as the ideal power source for many instrument applications, whether you just require reliable 12 or 24Vdc instrument power, battery backed up uninterruptible dc power, or dc power from more difficult sources such as high voltage dc battery banks.

Modbus Modules

The Modbus serial protocol provides a very convenient and low cost method of getting plant signals into your SCADA or PLC system. This OMNITERM range of Modbus Modules provides an easy to use interface for remote data gathering of a few plant signals.

Comprehensive Range of Isolators, Signal Converters, Trip Modules

mV, V/C, TC, Hz, Universal, +/- Volts, Retransmit, AC, DC.

- Low Cost - DIN rail mount slim design
- SIL Safety Loops
- Decrease installation time by avoiding on site calibration
- Reduce your spares inventory of signal conditioning module
- Free configuration template library
- High reliability and accuracy for optimum process control
- Reduce downtime with fast configuration

Current Loop Isolators



LPI
Model C2063
Single Loop
Powered Isolator



LPD
Model C2462
Dual Loop
Powered Isolator



LPR
Model C2463
Current Loop
Repeater



LPS
Model C2464
Current Loop
Splitter

Integrated 250 ohm resistor for 1 - 5 VDC included LPI/LPD.

Signal Transmitters



TXB
Model C2401
DIN rail mount
configurable
universal 4 wire
Transmitter



TWT
Model C2406
DIN rail mount
configurable
temperature input
2-wire Transmitter



TWA
Model C2405
DIN rail mount
configurable ac
current/voltage
2-wire Transmitter



THZ
Model C2403
DIN rail mount
configurable
frequency input
4-wire Transmitter

Programmable - free software

Limit Alarms/Trip Amplifiers



TTB
Model C2465
DIN rail mount
hardware
adjustable dual
alarm/trip relay



TTP
Model C468
DIN rail mount
universal input
software settable
dual alarm/trip relay



TTT
Model C2467
DIN rail mount
universal input
software settable
combined dual
alarm/trip with
retransmit



THT
Model C2469
DIN rail mount
universal input
software settable
combined dual
alarm/trip with
retransmit

Programmable - free software



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