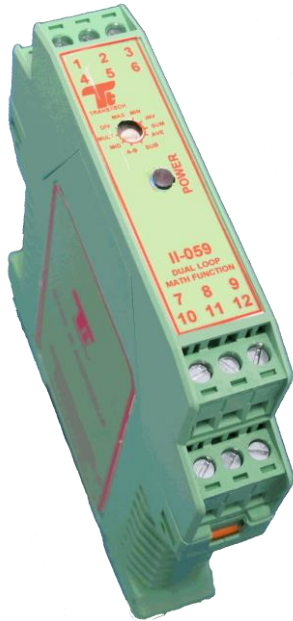


MODEL:- II-059

Powered Dual Analog Input with Math's Function(s) Output



GENERAL DESCRIPTION

The II-059 is a fully isolated maths module that takes the same inputs of 2 x 4-20mA or 2 x 0-10Vdc inputs (inputs A and B) and applies 10 math's functions to those Analog inputs and has a resultant output in a similar analogue format. Math functions Include the following:

- SUM** = Summation of the two inputs (A+B)
- AVE** = Average of the two inputs (A+B)/2
- SUB** = Subtraction of the two inputs (A-B) but input B must be equal to or less than input A.
- MID** = Mid-range of the two inputs (A-B)/2 if A=B output is mid-range.
- MINUS** = Difference |A – B| the difference of the two inputs regardless which is higher.
- MULT** = Multiplication of the two inputs (A*B) full range for both inputs = 20mA/10V output.
- DIV** = Division of the two inputs (A/B) assuming A<B.
- MAX** = Maximum of the two inputs
- MIN** = Minimum of the two inputs
- INV** = Inversion of input A, input B is ignored (-A)

FEATURES

- ◆ Wide operating supply voltage range 10-72Vdc.
- ◆ Switch selection for math's function.
- ◆ Wide ambient operating temperature range.
- ◆ LED for power on
- ◆ Four port isolation to 1500Vdc
- ◆ DIN rail mounted.
- ◆ Small footprint 17.5mm width

TECHNICAL DATA

Supply Voltage 12Vdc, 24Vdc, 48Vdc OR 12Vac, 24Vac, 48Vac
Input Current (per input) Input A & B = 4-20mA
Input Voltage (per input) Input A & B = 0-10Vdc
Other inputs Enquire on the factory

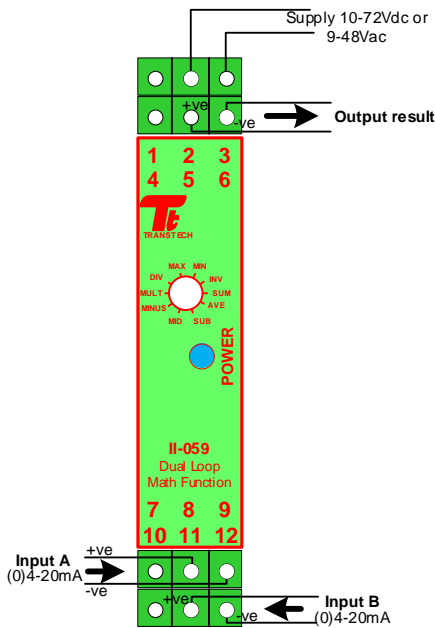
Output Current: 4-20mA or 0-10V. The output can be different to the inputs,
 Example: 2 x 4-20mA inputs and a 0-10Vdc output.

GENERAL SPECIFICATION

Input Voltage 10-72Vdc and 9-48Vac
Long term drift <0.1% of span per 10,000hrs
Isolation level 1500Vdc
Creepage distance >2.5mm (port to port)

Output noise 3.2uA rms (typical)
Accuracy 0.1% of span
Linearity 0.1% of span
Repeatability 0.1% over 10,000 hrs.
Response time Nominally 100mSec

Indicators 1 x Blue Power ON LED
Operating Temp 0 to 70 Deg C
Storage Temp 0 to 85 Deg C
Terminals Self-opening 2.5mm
Housing material KRILEN
Mounting Style DIN Rail
Dimensions See drawing below.
Weight 250 grams.



SCHEMATIC DIAGRAM

