



TR | ISO

Transducers & Isolators

Isolation Interface | Signal Changeover

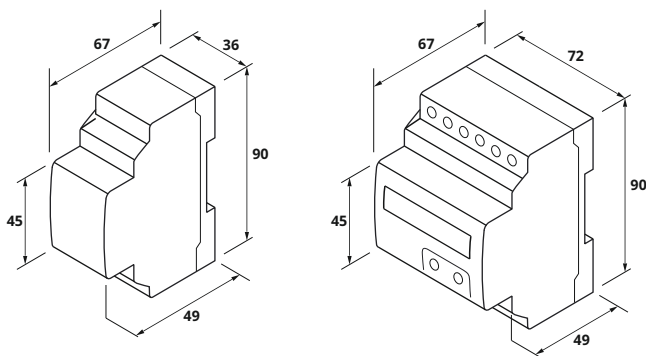
Features:

- Input signal is isolated from output signal by 2KV
- Monitor and displays A, V, Hz, W, VA, PF & VAR based on Models
- Din Rail Mounting
- Quick response time of 300ms in display and communication
- Sets to protection mode during high voltage/current
- Configurable single phase/ three phase input and output
- Load resistance for current output is up to 500 Ω
- True RMS Measurement
- Individual phase overload monitoring
- Patented customised display
- Compact device with dual output and RS485
- Override selection for desired value and range.
- On field configurable Input and Output parameters

Benefits:

- Measure, record and visualize electrical network parameters
- Easy to install and is field configurable by the user
- Measured parameters can be programmed to generate equivalent output signals
- True RMS measurements provides accurate and reliable readings
- Isolation between input to output or output to output, ensures safety while connecting multiple systems
- Input and output current parameters are field configurable
- User Friendly interface to support remote monitoring and communication
- Output signal is transferable over a long range
- Reliable and field proven safety mechanism isolates input and output during high voltage or current to ensure equipment is safe
- Electrical parameters are displayed via bright LEDs
- Programmable Min, Mid and Max at site

Mechanical Specification:



Applicable Standards:

DIN 40050 EN 60529	Degrees of protection provided by enclosure for electrical equipment against ingress of solid foreign objects
DIN / IEC 60688:2012	Electrical measuring transducers for converting A.C. and D.C. electrical quantities to analogue or digital signals

Technical Specification:

Specification	TR XXXX	ISO XXX
Input Range:	50V - 550V, 10mA - 6A	0-20mA or 0-75mV or 0-10V (48V Upto 800V)
Output:	4-20mA or 0-20mA or 0-10V (Upto 2), RS485	4-20mA or 0-20mA or 0-10V (Upto 2), RS485
Power Supply:	60 to 300V AC/DC, 15 to 60V AC/DC (Optional)	24 to 60V AC/DC 60 to 300V AC/DC (Optional)
Display (4DIN Series)	6 digit, 10mm height	6 digit, 10mm height
Accuracy:	Class 1.0, Class 0.5, Class 0.2 is optional	Class 1.0, Class 0.5 optional
Response Time:	300ms	300ms
Frequency Bandwidth:	45-65Hz	DC
Offset Voltage:	10mV	10mV
Thermal Drift:	300 ppm/°C	300 ppm/°C
Power Consumption:	250mW(+12V)	250mW(+12V)
Isolation Voltage:	2500 Vdc	2500 Vdc
Overload Capacity:	1.2 times full scale	1.2 times full scale
Flame Retardancy:	UL94-V0	UL94-V0
Hysteresis Error:	10mV	10mV
Communication RS485 interface:	Parity: Odd, Even, None (Preferred Even) Baud rate: 4800 bps to 19200 bps. (Preferred 9600 bps). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits. Nodes: Upto 64	
Output Ripple:	10mV	10mV
Operation Temperature:	-10 to +60°C	-10 to +60°C
Storage Temperature:	-55 to +65°C	-55 to +65°C
Installation:	2DIN, 4DIN	2DIN, 4DIN

Product Selection:

	TR110	TR120	TR130	TR1200	TR2100	TR2200	TR4200	TR5200	ISO 100	ISO 200
INSTANTANEOUS	2DIN			4DIN						
Single phase V	✓			✓			✓	✓		
Single phase A		✓		✓			✓	✓		
Single phase Hz			✓	✓			✓	✓		
Three phase A/ V/ Hz				✓			✓	✓		
Three phase Watts/VA/Var/PF					✓	✓	✓	✓		
Energy								✓		
ADC/VDC									✓	✓
Override				✓	✓	✓	✓	✓	✓	✓
Display				*	*	✓	✓	✓	✓	✓
RS 485				*	*	*	*	✓	*	*
Analog Output in numbers	1	1	1	2	1	2	2	2	1	2

* Optional

-10 to +10mA option available for single AO