



TRANSducers & ISOLATORS

A precise sensing solution for automation/SCADA systems.

FAST RESPONSE TO ENSURE ACCURATE MEASUREMENTS AND CONTROL.

- Measure, record and visualize electrical network parameters
- Easy to install, **Field configurable** by the user (TR4200/5200)
- Measured parameters can be programmed to generate equivalent output signals
- True RMS measurements provides accurate and reliable readings

VERSATILE PRODUCT WITH ON-SITE PROGRAMMABILITY VIA KEYPAD.

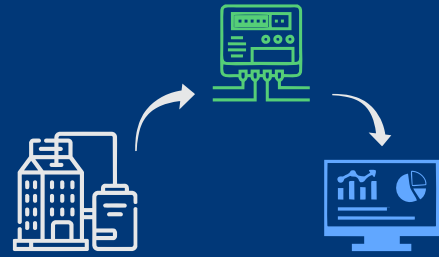
- **Isolation between input to output** or output to output, ensures safety while connecting multiple systems
- Input and output current parameters are **field configurable**
- User Friendly interface to support remote monitoring and communication
- Output signal is transferable over a long range

COMPLETE ISOLATION OF SIGNAL NOISE TO ENSURE MAXIMUM DATA RELIABILITY.

- 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



MULTI-FUNCTIONAL TRANSDUCCERS FOR PRECISE MONITORING AND CONTROL.



Transducers & Isolators

DIN-Rail Mounted



- True RMS measurement
- Single and Dual output depending on models
- Quick response time of 300 msec
- Load resistance for current output is upto 500 ohms
- Isolation between Input and Output (ISO series)

TR 4200 & TR 5200

- 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
- 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

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 AC and DC electrical quantities to analogue or digital signals.

Model Selection

Parameters	TR 1110	TR 1200	TR 2100	TR 2200	TR 4200	TR 5200	ISO 100	ISO 200
INSTANTANEOUS								
Single Phase V	✓	✓			✓	✓		
Single Phase A	✓	✓			✓	✓		
Single Phase Hz	✓	✓			✓	✓		
Three Phase A/V/Hz		✓			✓	✓		
Three Phase Watts/VA/Var/PF			✓	✓	✓	✓		
Energy						✓		
ADC/VDC							✓	✓
Over ride		✓	✓	✓	✓	✓	✓	✓
Display					✓	✓		
RS485					*	✓		*
Analog Output in Numbers	1	2	1	2	2	2	1	2

Note: -10 to +10mA option available for single AO

* Optional

Technical Specification

Specification	TR XXXX	ISO XXX
GENERAL CHARACTERISTICS		
Input Range:	50V - 550V, 10mA - 5A	0-20mA or 0.75mV or 0-10V (48V upto 800V)
Output:	4-20mA or 0-20mA or 0-10V	
Power Supply:	60 to 300V AC/DC, 15 to 60V DC (Optional)	
Display (4DIN Series)*	6 digit, 10mm height	
Accuracy:	Class 0.5, Class 0.2 optional	
Response Time:	300mS	
Frequency Bandwidth:	45 - 65 Hzdc	
Offset Voltage:	10mV	
Thermal Drift:	300 ppm/°C	
Power Consumption:	250mW (+12V)	
Isolation Voltage:	2500 Vdc	
Overload Capacity:	1.2 times full scale	
Flame Retardancy:	UL94-V0	
Hysteresis Error:	10mV	
COMMUNICATION		
Rs485 Interface*	Parity: Odd, Even, None (Preferred Even) Brand 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	
ENVIRONMENTAL CHARACTERISTICS		
Output Ripple:	10mV	
Operation Temperature:	-10 to +60°C	
Storage Temperature:	-55 to +65°C	
Installation:	4DIN	

*Only for 4200 / 5200

Mechanical Specification

