



PALADING ADVANTAGE 254-XZZ UNIVERSAL PROGRAMMABLE TRANSDUCER

KEY FEATURES

- DIN-rail enclosure
- Measurement, isolation and conversion of up to 4 parameters
- Alarm/pulsed output
- Programmable VT/CT ratio
- True RMS measurement
- User programmable configuration

TE Connectivity's (TE) Crompton Instruments Paladin Advantage 254-XZZ is a programmable transducer that provides measurement isolation and conversion of all main electrical parameters into an industry-standard DC output signal. The 254-XZZ can be used in single and three-phase balanced or unbalanced three or four-wire electrical systems. The 254-XZZ has an accuracy of CL0.2 and includes RS485 Modbus* RTU communications protocol and pulse/alarm output as standard.

The 254-XZZ is an accurate device for the conversion of all main electrical parameters into a Voltage or mA output. It provides measurement, isolation, and conversion of up to four user-defined inputs and outputs. The supplied device is programmed to the user's requirements but can be easily be reprogrammed to suit any application.

The transducer is designed with integrated microprocessors for good waveform handling of distorted waveforms. The 254-XZZ is ideal for low, medium and high voltage applications and provides high protection against continuous and short circuit protection as well as galvanically isolated inputs and outputs.

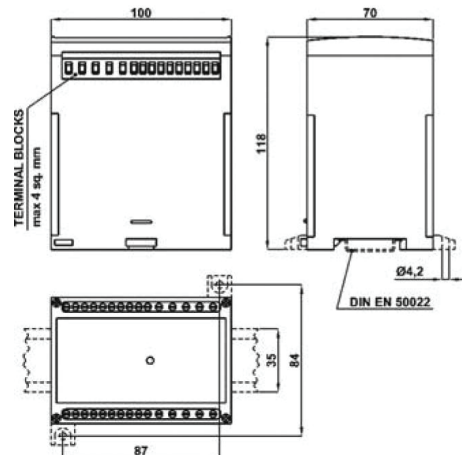
**Modbus is a trademark.*

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Palading Advantage 254-XZZ



SPECIFICATION	
Input	
Nominal input voltage	57.7 V - 277 V AC L-N (100 - 480 V L-L) 480 V MAX
Max. Continuous input overload voltage	120% of nominal
Max. Short duration input voltage (300 msec)	2 x nominal voltage
Nominal input voltage burden	< 0.5 VA per phase
Nominal input current	1A AC or 5A AC rms
Nominal input current burden	< 0.1 VA
Max. Continuous input overload current	2 x nominal voltage
Max. Short duration input current (300 msec)	20 x nominal current
Auxiliary	
Operating range	80 - 260 V AC/DC (+/- 10%) 45 - 66 Hz, 6 VA or 20 - 60 V AC/DC (+/- 10%) 45 - 66 Hz, 6 VA
Supply burden	6 VA
Accuracy	
Voltage (V)	< 0.2%
Current (A)	< 0.2%
Neutral current calculated (A)	< 1.0%
Frequency (Hz)	< 0.1 Hz
Power factor (PF)	1% of unity
Active power (W)	+/- 0.2% of range
Reactive power (VAR)	+/- 0.2% of range
Apparent power (VA)	+/- 0.2% of range
Active energy (kWh)	Class 0.2 (IEC 62053-21)
Reactive energy (kVARh)	+/- 0.2% of range
Response time	<200 msec
Range	
Voltage (V)	5% to 120% for nominal
Current (A)	5% to 120% of nominal
Frequency	45 - 65 Hz
THD	up to 31st harmonic
Outputs	
Analogue output	0... +/- 1 mA 0... +/- 5 mA 0... +/- 10 mA 0... +/- 20 mA 4... +/- 20 mA 0... +/- 1 V 2... +/- 10 V All programmable
Pulse/alarm output relay	User defined solid state relay
Contact rating	100 mA @ 250 V
Pulse duration	30 msec to 1000 msec
Alarm delay	0 - 120 secs
Alarm hysteresis	1 - 99%
Alarm type	User Defined Solid State Relay
Communication protocol	RS485 Modbus RTU
Type	2-wire half duplex
Baud rate	9600, 19200, 38400
Enclosure	
Enclosure style	DIN-rail mounting
Dimensions	100 x 79 x 118 mm
Material	Polycarbonate to UL94-V0
Weight	0.42 kg
Terminals	Shrouded screw-clamp 0.05 - 4 mm wire
Environment	
Operating temperature	-10°C to +55°C
Storage temperature	-30°C to +70°C
Relative humidity	0 - 90% non-condensing
Shock	30 g in 3 planes
Vibration	10 Hz to 50 Hz
Dielectric voltage	Withstand test 4 kV, 50 Hz for 1 minute between auxiliary/input/output



Dimensions

- 100 x 70 x 118 mm
- 3.94" x 3.11" x 4.65"
- Weight 0.42 kg

Standards
IEC 61326
IEC 61010-1
IEC 62053-21
EN60688
RoHS Compliant

Product codes	Part number
Paladin Advantage	254-XZZ
Options	
Auxiliary	
80 - 260 V AC/DC (+/- 10%) 45 - 66 Hz, 6 VA	254-XZZ-M
20 - 60 V AC/DC (+/- 10%) 45 - 66 Hz, 6 VA	254-XZZ-L
Analogue Outputs	
Two programmable outputs	254-XZZ-*-02
Four programmable outputs	254-XZZ-*-04

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