

PWM350T



TT TECHNA-CHECK® – PWM350T Load Transducer –

Power Transducer for 3-phase Inductive Loads

A fast measurement transducer specifically developed for Machine Tool Monitoring applications.

PWM350T measures motor power, kW

- TTBUS Networked Unit
- 4 Remotely Programmable Measurement Ranges

The PWM350T is designed primarily for measuring the power delivered to motors by variable frequency inverters. Power is measured from the formula:

$$P = \sqrt{3} \times U \times I \times \cos\phi$$

The PWM350T Power Transducer is specifically developed to function as a load transducer for the TECHNA-CHECK® Range of Machine Tool Monitors. The PWM350T is available as a 3 x 50 Amp, 3 x 25 Amp or a 3 x 12,5 Amp transducer.

The three motor wires U, V and W must pass through the wholes in the transducer in the same direction to the motor either from Top-Bottom or from Bottom-Up.

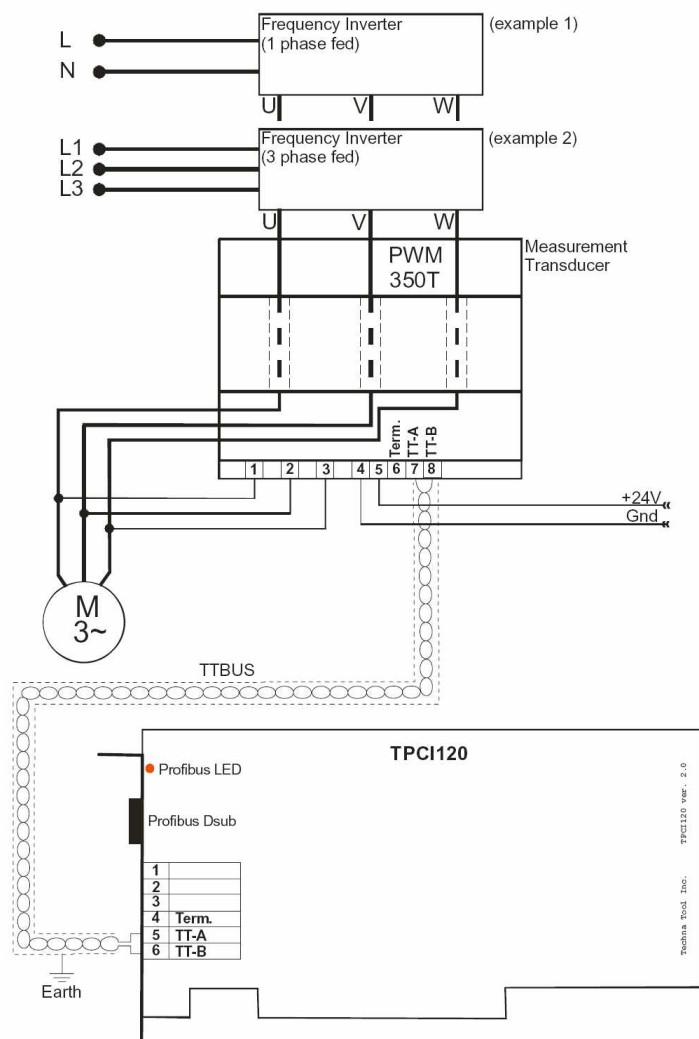
Note: The PWM350T is designed for use with inductive loads only (motors).



Technical Specification

Mechanical	
Housing:	Polycarbonate
Mounting::	35 mm DIN-rail
Protection Class::	IP40
Temp. Range:	-15 to + 50 C
Weight::	App. 500g (1 lb)
Dimensions::	D 118 x B 45 x H 137,5 mm
Connections::	Max 2,5 mm ² (AVG 24)
Electrical	
Voltage Input:	3 x 0-500 V PWM (0-600V max)
Current Input:	3 x 50 Amp. 5Hz - 5kHz or 3 x 25 Amp. 5Hz - 5kHz or 3 x 12,5 Amp. 5Hz - 5kHz – see side label for actual range
Power Range:	0-43.3 kW
Supply:	18-24 VDC max. 2.5 Watt
TTBUS:	RS485 electrically isolated

PWM350T Connection to TPCI120



Power Measurement

- 4 quadrant analogue multiplication.
- Measures power after variable frequency inverter.

Ultra Compact DIN rail mount

- Less than 2" of rail space.

Current wires feeds through 3 holes in unit

- 3 internal 50 Amp. current sensors.

Monitor any size motor

- (external CT >50Amp.)

Measurement Ranges

The measurement range is selected by hardwiring or PLC control of the two inputs S1 and S2.

Unit Type	3 x 50 Amp.	3 x 25 Amp.	3 x 12,5 Amp
100 %	43.3 kW	21.7 kW	10.8 kW
50 %	21.7 kW	10.8 kW	5.42 kW
20 %	8.66 kW	4.33 kW	2.17 kW
5 %	2.17 kW	1.08 kW	0.54 kW

Note!

Please use **good-quality** twisted and shielded cable earth-connected at one or both ends for the TTBUS network.

Last unit in the TTBUS network chain **must** be terminated.

Please connect a wire between terminal 6 and 8 on the PWM350T (the TTBUS slave) when termination is required.

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