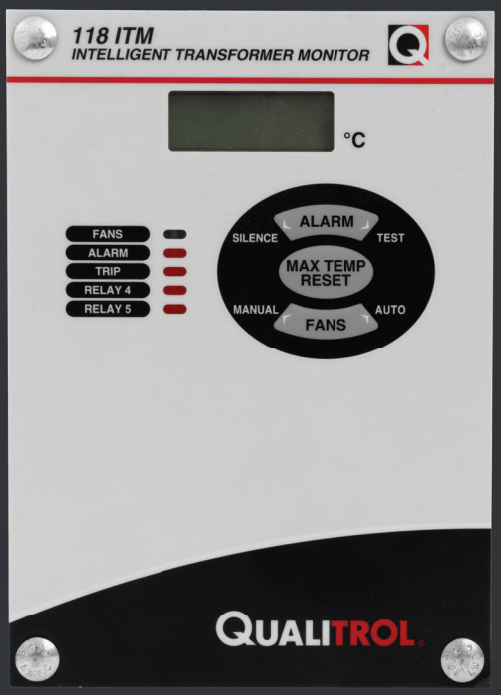
QUALITROL®
Defining Reliability

118ITM

Intelligent Dry Transformer Monitor



- Monitor up to three dry-type transformer windings
- Build-in fan control, fan exerciser, alarming and trip functions
- 0-1 or 4-20mA output for intergration with SCADA systems
- CE, UL and CSA certified

Product Summary

Application The 118 series Intelligent Transformer Monitor is the right choice for all your Dry Type Transformer monitoring and control needs.

Description The 118 monitors temperature in up to three (3) Dry-Type transformer windings. The 118 operates Fan, Alarm, Trip and two (2) additional relays by comparing the winding with the highest temperature to pre-selected relay set point temperatures. Front panel LED indication available.

Up to two (2) cooling fan banks can be controlled using the heavy duty fused fan control relays.

Both analog and digital communications can be provided for use with SCADA systems.

Key Features

Thermocouple Monitor

- The 118 ITM monitors up to three (3) Type “K” thermocouples
- Reliable operation through advanced design
- The 118 ITM displays three (3) thermocouple inputs, the stored maximum temperature and its associated winding

Fan Exerciser

- Fan excerciser is configurable to customer requirement
- The118 ITM has a built-in configurable fan exerciser function that can activate fans at periodic intervals providing maximum asset protection (configuration software required)

118 ITM Outputs

- Output Fans: One or two SPST contacts Rated 30 Amps @ 120/240 VAC 1 HP @ 120 VAC, 2 HP @ 240 VAC for each contact
- Output Alarm: One SPDT contact Rated 10 Amps @ 120 VAC or 8 Amps @ 240 VAC (resistive)
- Output Trip: One (1) SPDT contact Rated 10 Amps @ 120 VAC or 8 Amps @ 240 VAC (resistive)
- Remote Output: 0-1 mA into a load of up to 10,000 ohms max
- 4-20 mA into a load of up to 500 ohms max
- Optional MODBUS communication via RS-485

118 ITM Outputs

- As part of Qualitrol’s drive for quality and reliability on all Intelligent Transformer Monitors, the 118 ITM is rigorously tested to UL standard 873, Canadian Standard C22.2 No. 24-93 and EU Declaration of Conformance CE

Techincal Details

Performance	Input Power	80 to 300 VAC 50/60 HZ; 40 to 280 VDC Universal Power Supply
	Measurement Range	0°C–250°C
	Display Resolution	1°C increments
	Input Measurement Accuracy	±3°C
	Memory Retention:	40 years (with power OFF)
	Contact Ratings Fans Alarm & Trip Fan Circuit Rating	Volts / Resistive / Horsepower 120 VAC / 30 A / 1 Hpa 240 VAC / 30 A / 2 Hpa 120 VAC / 10 A / - - - - - 240 VAC / 8 A / - - - - - UL rated for 20 Amp
	Remote Output Current Loop (Configuration software required) Accuracy:	0 to 1 mA = into 10,000 Ohms max. load 0 to 10 mA = into a 1000 Ohms max. load 0 to 20 mA = into 500 Ohms max. load 4 to 20 mA = into 500 Ohms max. load 0 to 5 V ±3°C
	Fan Exerciser	Fan Run Time – 1 to 120 minutes Fan Cycle Time – 0.01 to 30.0 days Time starts at power up
	Optional Modbus Communications	Via electrically isolated 2- or 4-wire RS-485 link
Environment	Operating Temperature	-20°C to +72°C
	Storage Temperature	-40°C to +72°C
	Relative Humidity	10 to 90% non-condensing
	Hi-pot	1500 VAC 50/60 Hz for 1 minute; relay contacts and power input to all other terminals and earth ground
	Vibration	50/180 Hz @ .004”displacement
	Shock	10 Gs in 3 orthogonal planes
	Transient Suppression	Per ANSI 37.90a-1989 oscillatory waveform test

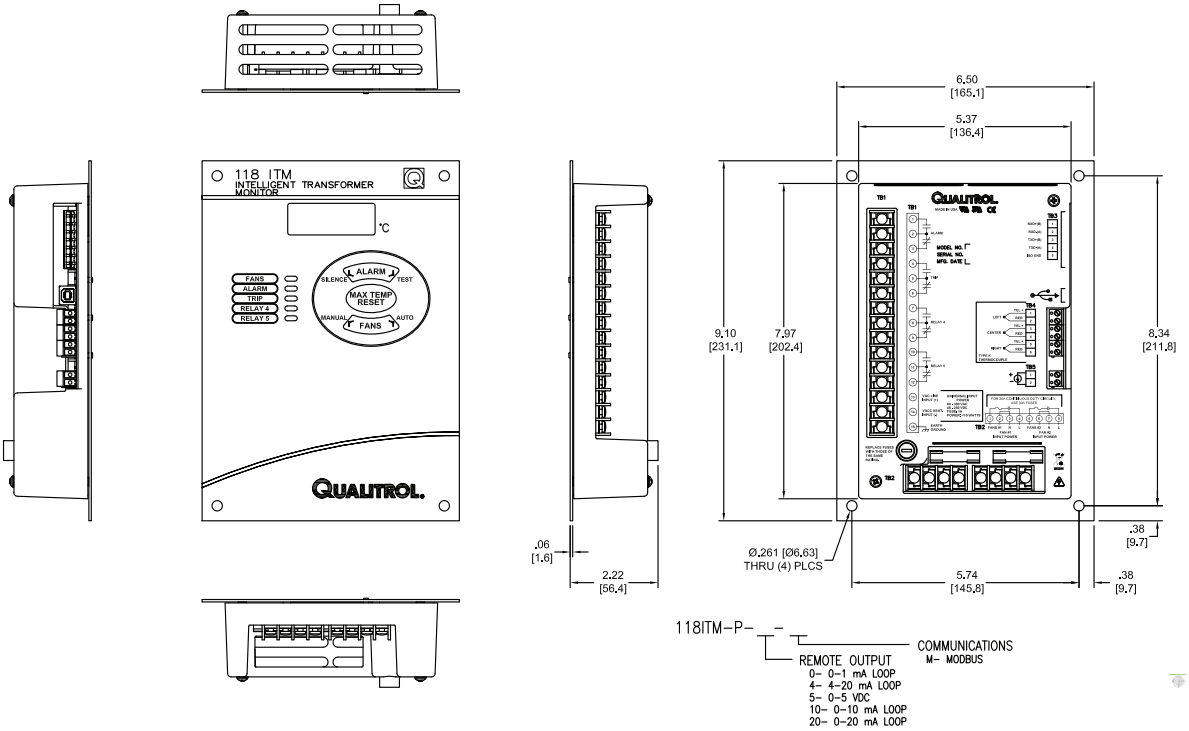
Techincal Details

Mechanical (Panel Mount Unit)	Front Panel	6.5"[165.1mm] Wide x 9.10"[231.1mm] High
	Mount	Panel mount through 5.37" [136.4 mm] wide x 7.97" [202.4 mm] high cutout. Mounting Holes 5.74" [145.8mm] Wide x 8.34"[211.8mm] High Ø.261[6.63mm]
	Depth	2.22"[56.4mm]
	Weight	3lbs[1.4kg]
	Terminals	Screw terminal; maximum 12-gauge wire
	Front Panel	8.82"[224.03mm] Wide x 15.1"[231.1mm] High (Hinge Mount)
Mechanical (Hinge Mount)	Mount	Hinge mount through 8.82" [224.03mm] Wide x 15.12" [384.05 mm] High cutout Mounting Holes 7.94" [201.63mm] Wide x 14.25" [361.95mm] High Ø.261 [6.63mm] x (4)
	Depth	4.28" [108.71mm]
	Weight	5lbs [2.3kg]
	Terminals	Screw terminal; maximum 12-gauge wire



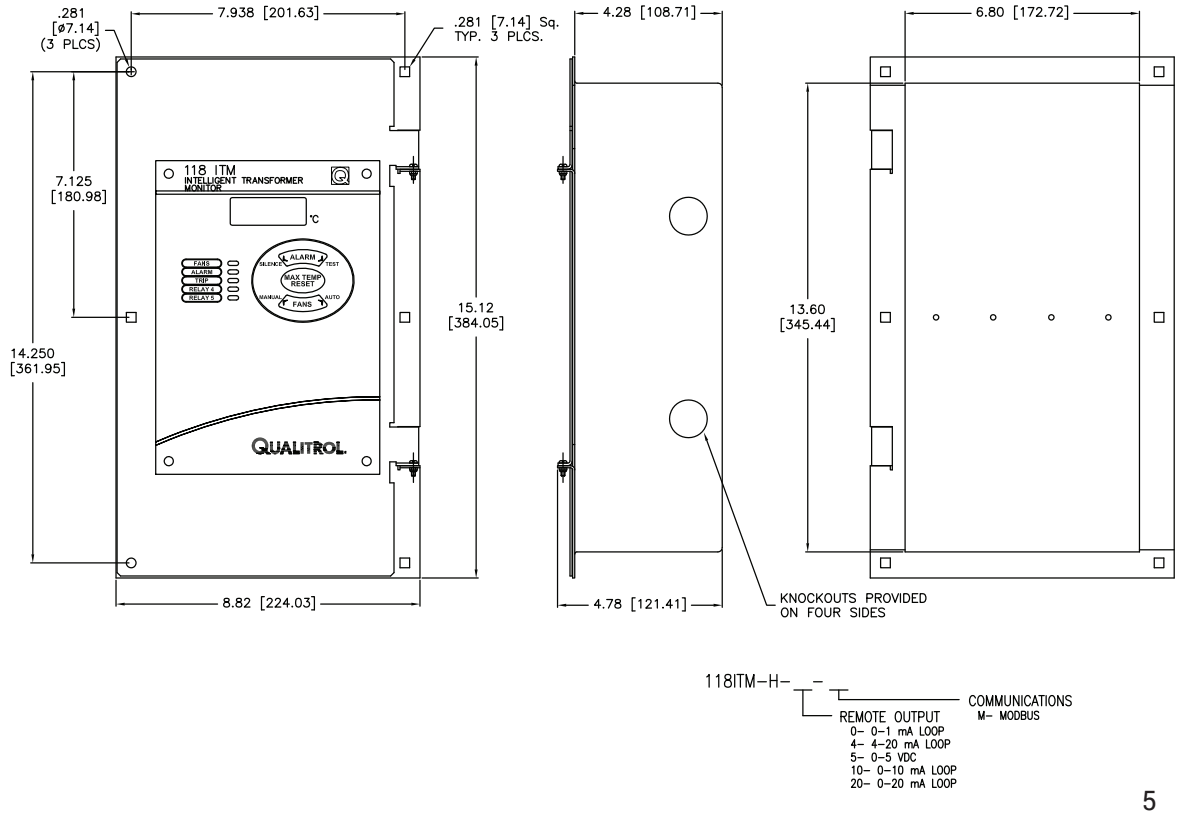
Engineering Drawing

118 ITM-P
Panel Mount



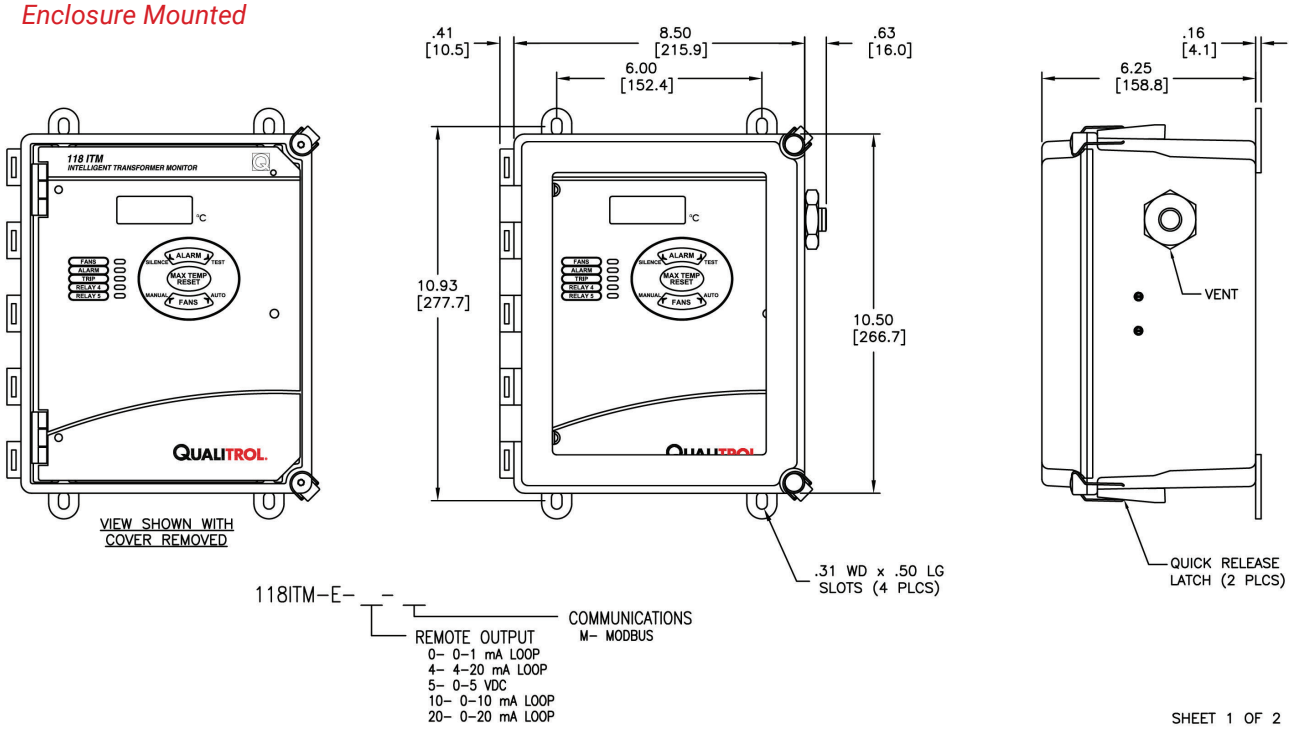
118 ITM-H
Hinge Mount

- USB Cable + CD for software installation to configure settings and calibration via PC

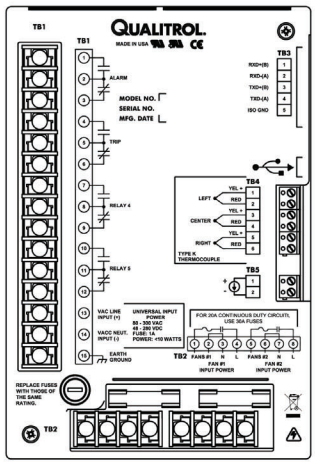


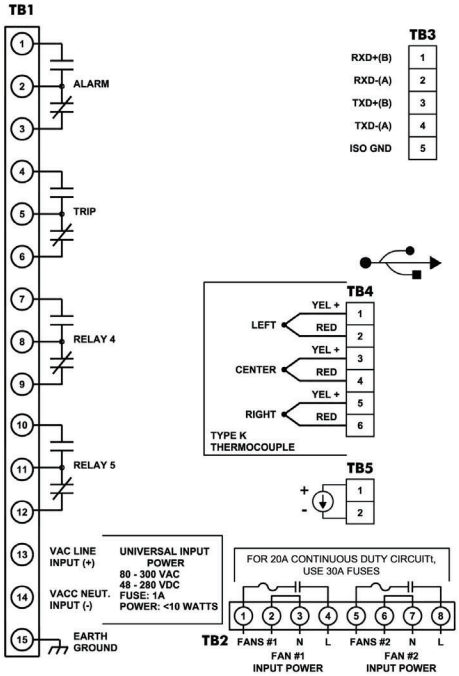
Engineering Drawing

118 ITM-E
Enclosure Mounted



SHEET 1 OF 2



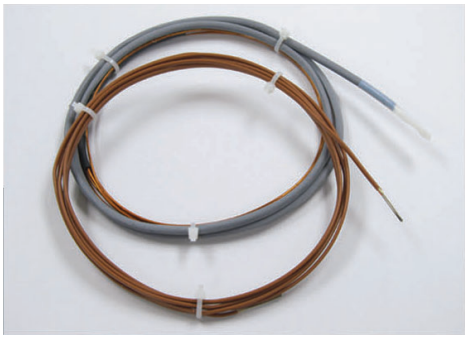


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QUALITROL®
Defining Reliability

Accessories

CAB – 625 & 626
Type "K" Thermocouples



About Qualitrol

QUALITROL® manufactures substation and transformer monitoring and protection devices used by electric utilities and manufacturing companies. It is the global leader in sales and installations of transformer asset protection equipment,nfault recorders and fault locators. Established in 1945, QUALITROL® produces thousands of different types of products on demand, each customized to customers' unique requirements.

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