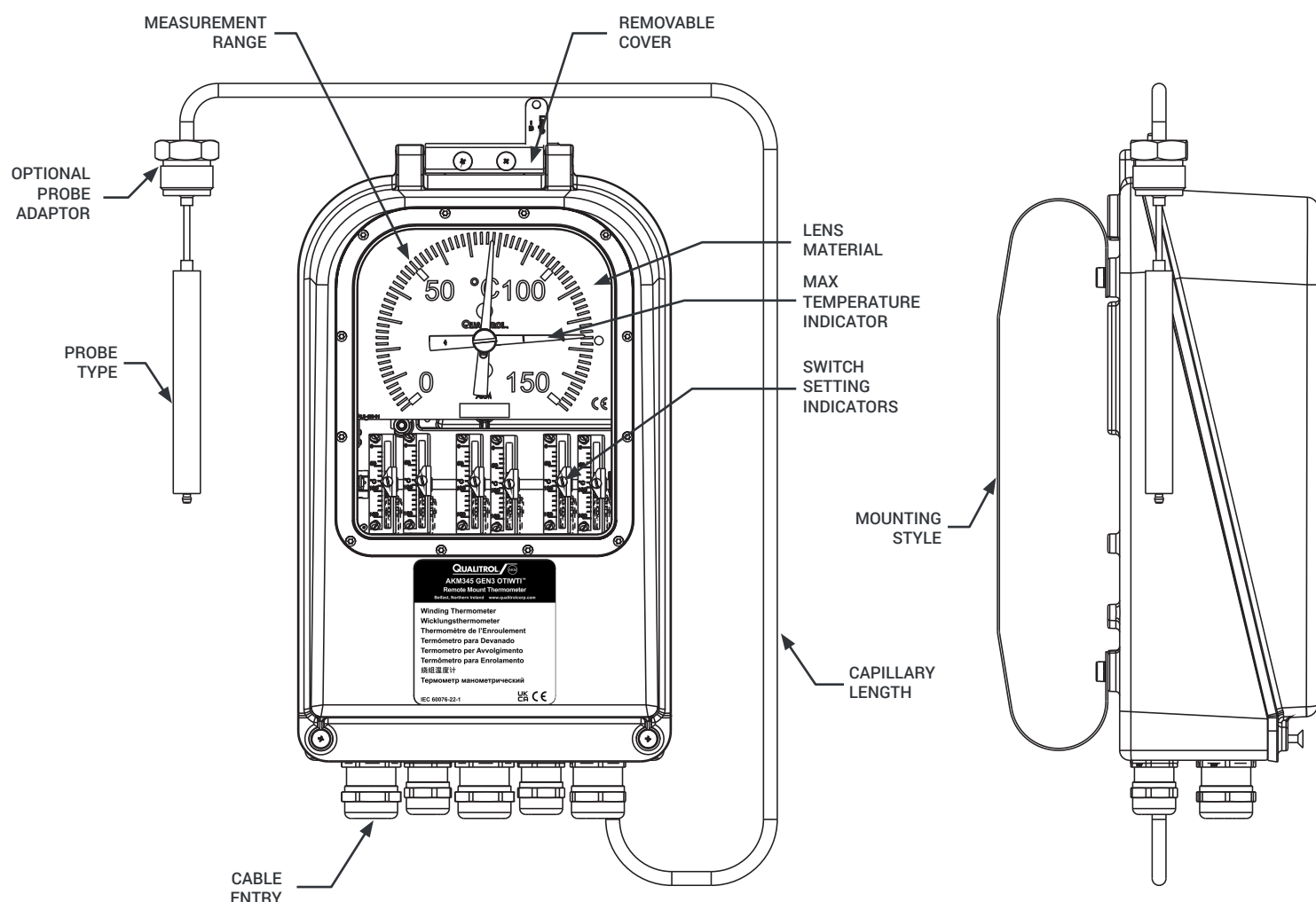


QUALITROL AKM 345 GEN3 OTIWTI™

CONFIGURATION FORM

OVERVIEW PAGE



STANDARD SPECIFICATIONS:

Temperature Sensing System: Bellows type expansion system (no mercury) compensated for ambient temperature changes

Capillary Type: Copper-nickel with a protective stainless steel cover

Accuracy: For $T > 0^{\circ}\text{C}$: $\pm 2\%$ of Full Scale Range

Switches: 2, 4, or 6 Form C contacts, Electrically separated circuits, Each switch can be set independently

Terminal Wiring Switches: 1.5mm² to 4mm²

Ingress Protection: IP66 Standard

Corrosion Protection: C5-High as per ISO 12944

Ambient Operating Temperature: -40°C to 70°C - Standard
-60°C to 70°C - Polar

Storage Temperature: -50°C to 80°C

General Requirements: Per IEC 60076-22-1

Dielectric Isolation Switches: 2000VAC to Earth for 60 Seconds

Dielectric Isolation Remote Output: 500VAC to Earth for 60 Seconds

Overvoltage category, Pollution degree, Class: Category III, Pollution degree 2, Insulation Class 1

QUALITROL AKM 345 GEN3 OTIWTI™

CONFIGURATION FORM

SELECTION PAGE



THERMOMETER STYLE

☐ 34/GEN3 - Oil Temperature

☐ 35/GEN3 - Winding Temperature

MATCHING RESISTANCE

☐ None

☐ TD50 - CT < 2.20 A

☐ TD76 - CT < 2.65 A

☐ TD50(5AMP) - CT < 5A

☐ TD50(X2) - Double Gradient

☐ TD76(X2) - Double Gradient

**MEASUREMENT RANGE
(DIAL INDICATION RANGE °C)**

☐ 0 - 150°C

☐ 0 - 160°C

☐ 0 - 180°C

☐ -20 - 130°C

☐ -20 - 140°C

☐ -40 - 140°C

**MEASURING ACCURACY
(% FULL SCALE DEFLECTION)**

☐ ± 2% FSD (standard)

☐ ± 1.3% FSD

☐ ± 1% FSD

**NUMBER
OF SWITCHES**

☐ 2

☐ 4

☐ 6

SWITCH TYPE/RATINGS

SWITCH TYPE	RATED VOLTAGE	RESISTIVE LOAD	INDUCTIVE LOAD
<input type="checkbox"/> STANDARD SWITCH	125 VAC	15 A	15 A
	250 VAC	15 A	15 A
	125 VDC	0.75 A	0.4 A
<input type="checkbox"/> MBO SWITCH ①	250 VDC	0.3 A	0.2 A
	125 VAC	10 A	6 A
	250 VAC	3 A	1.5 A
<input type="checkbox"/> GOLD SWITCH	125 VDC	10 A	6 A
	250 VDC	3 A	1.5 A
<input type="checkbox"/>	125 VAC	0.1 A	---
	125 VDC	0.1 A	---

① Minimum Electrical Operations = 100,000 cycles; all others 500,000 cycles minimum

**PROBE TYPE
(SEE PAGE 3)**

☐ Type 11

☐ Type 12

☐ Type 15

☐ Type 16

☐ Type 18

☐ Type 19

**OPTIONAL
PROBE ADAPTOR**

	Available with Probe Type	16	18	19
<input type="checkbox"/> None	Available for All Probes			
<input type="checkbox"/> G3/4 Male	YES			YES
<input type="checkbox"/> G3/4 Female		YES	YES	YES
<input type="checkbox"/> G1/2 Male		YES	YES	YES
<input type="checkbox"/> G1/2 Female		YES	YES	YES
<input type="checkbox"/> G1 Male	YES			
<input type="checkbox"/> M22 x 1.5mm	YES	YES	YES	YES
<input type="checkbox"/> M27 x 2mm		YES	YES	YES

NOTE: Optional Probe Adaptors are not available with Probe Types 11, 12, and 15.

CAPILLARY LENGTH

☐ 2 Meters

☐ 4 Meters

☐ 6 Meters

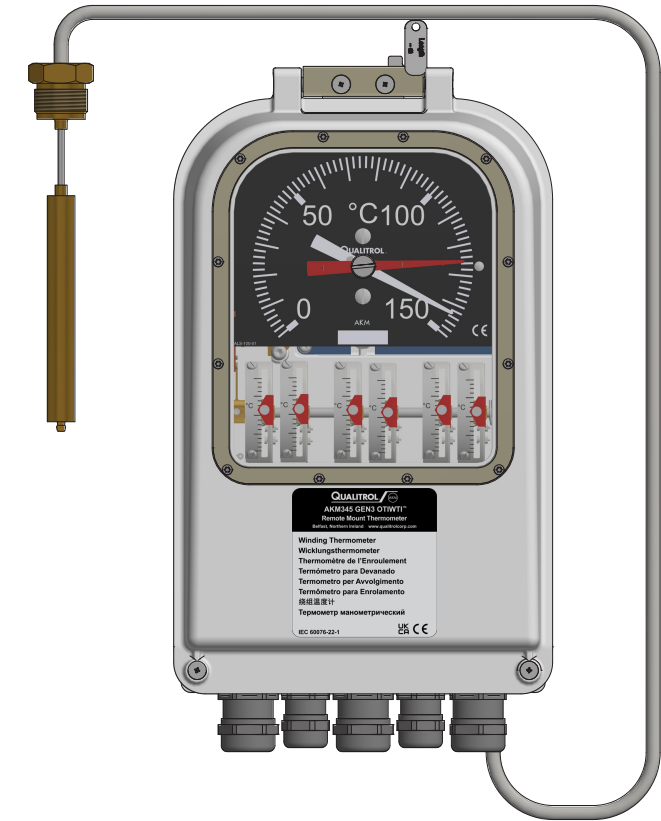
☐ 8 Meters

☐ 10 Meters

☐ 12 Meters

☐ 16 Meters

☐ 20 Meters



SWITCHING DIFFERENTIAL

☐ Standard - All 12 ± 2°C

☐ All Adjustable

**REMOTE INDICATION AND/OR
COMMUNICATIONS**

☐ Non-Powered Output

☐ Pt100 - 3-wire

☐ or

☐ Powered Outputs

☐ 4-20mA

☐ 2 x 4-20mA

☐ 4-20mA & 0-5VDC

☐ YES

☐ NO

RS-485 MODBUS ②

② MODBUS only available with a powered remote output

CASE FINISH

☐ RAL7000 C5-High (standard)

☐ RAL7035 C5-High

ENVIRONMENT

☐ Standard -40°C

☐ Polar -60°C

CABLE ENTRY

☐ M20 & M25 - As Required

☐ M20 & M25 - All Fitted

☐ Blanking Plugs

**MOUNTING
(SEE PAGE 4)**

☐ Standard

☐ Seismic

☐ Universal

LENS MATERIAL

☐ POLYCARBONATE

☐ GLASS



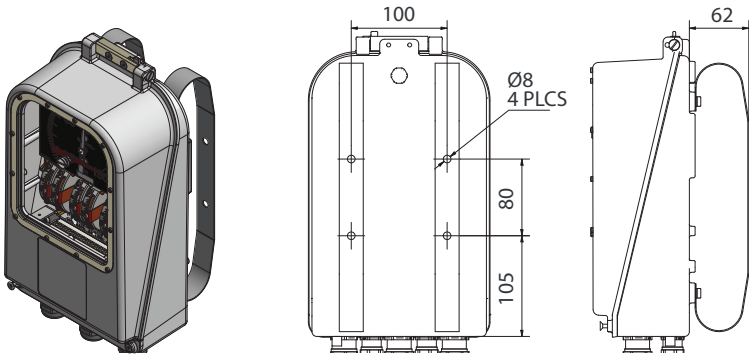
PROBE TYPES

11	
12	
15	
16	
18	
19	

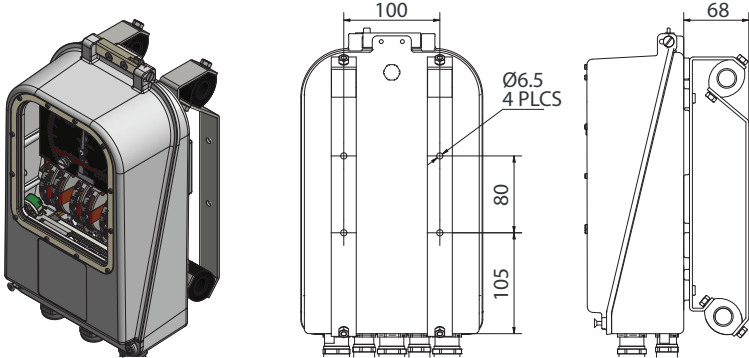


MOUNTING STYLES AND WIRING

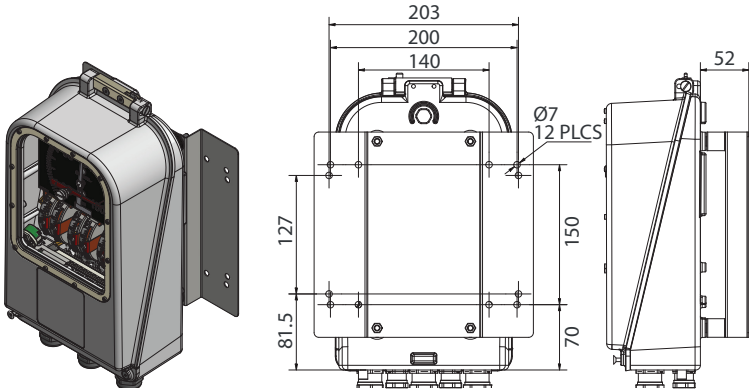
Standard Mount



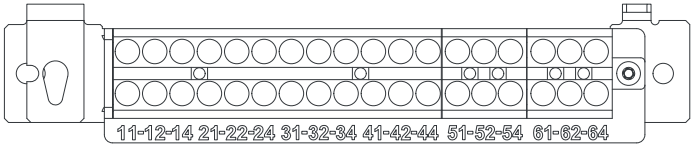
Seismic Mount



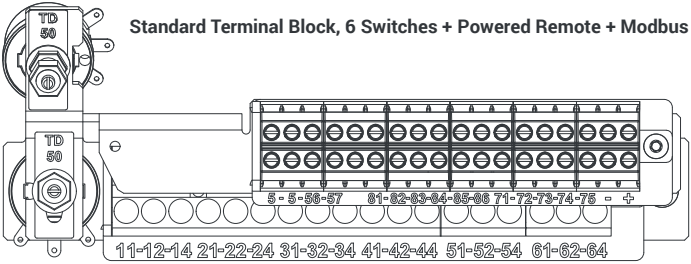
Universal Mount



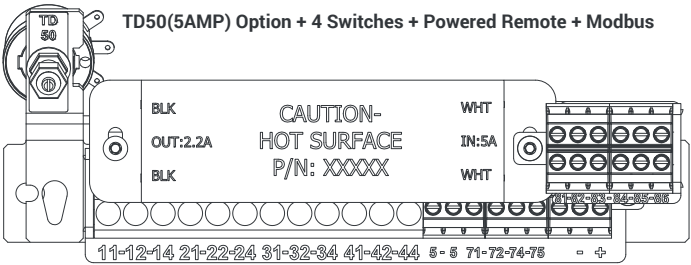
Standard Terminal Block, 6 Switches



Standard Terminal Block, 6 Switches + Powered Remote + Modbus



TD50(5AMP) Option + 4 Switches + Powered Remote + Modbus



TD50(5AMP) Option + 6 Switches + Pt100 Remote

