TEMPERATURE CONROLLER
Instrument Specification

A200

A precision, micro switch, Oil or Winding temperature controller for Alarm, Trip, Pump & Fan control with optional analogue output.

- Configured as an Oil Temperature Indicator (OTI) or Winding Temperature Indicator (WTI) for simulation of transformer 'Hot Spot' temperature
- ONAN & OFAF dual gradient option
- Self contained system
- 2, 3 or 4 High current switches (5 Amp max)
- Up to 30 metre capillary length
- Stainless steel sheathed capillary
- Weatherproof case to IP55* (Higher specification versions available**)
- Maximum Pointer
- Optional selectable analogue output
- Optional laminated safety glass window with 99% UV blocking
- Fully compensated for ambient temperature change
- Full Installation and Maintenance instructions supplied
- Conforms to BS.EN 50216-11:2008
- 10 year warranty when supplied **& fitted** by Accurate Controls Ltd

CERTIFIED QUALITY MANAGEMENT SYSTEM
URS UNITED REGISTRAR OF SYSTEMS ISO 9001

Issued: Jan 2020

Accurate Controls Ltd.
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AC Accurate Controls

Indicating Scale :

Length : 115mm (4.5”)
Range : 0-120°C, 0-150°C, 0-180°C, 30-150°C
Accuracy : 1.5% FSD

Accuracy of indication :

To Class 1: EN13190:2001

Electrical Connections :

Circuit diagram supplied
Circuit insulation tested 2000 V AC for 1 min.
Terminal block conductor size: 0.22 – 2.5mm^2

Switch Configurations :

Standard configuration (for alarm & trip only) :

2 off fixed differential changeover switches.
Differential 3-5°C

Optional switches (for pump & fan control) :

1 or 2 off adjustable differential switches.
Minimum differential of 25% of scale span.

Selectable normally open - normally closed switch configuration

Switch rating (all switches) :

5A 240V AC
250mA 250V DC
5A 30V DC
All switches 3 wire configued SPDT

Winding Temperature simulation (where fitted) :

Gradients set to customer specification.
Dual ONAN and OFAF gradients.
Overload protection to 200% load.
Matching unit not required
Suitable for 10A CT currents

Analogue Output (where fitted) :

0-10, 0-20, 2-10 & 4-20mA analogue output for interfacing with industry standard SCADA, substation control systems.
(digital or analogue meters are available upon request)

External DIN rail mounted power pack with universal input voltage: 85-265V AC 47-63Hz or 48-360 V DC

Standard Case :

Aluminium
Architectural polyester powder coat.
Electrical entry: bottom
Surface or panel mount
*Waterproof to IP55—bottom capillary entry only

Capillary System :

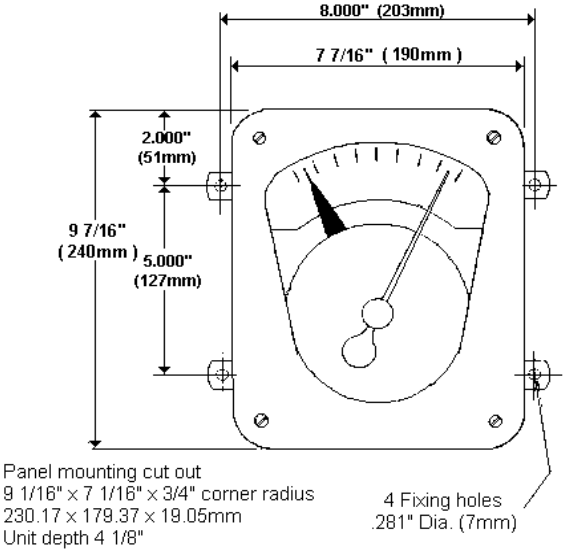
Capillary: Protected by stainless steel sheathing
Length: 2 to 30 metres
Case entry: Bottom or rear
Ambient compensation as standard
Bulb and pocket to suit customer requirements

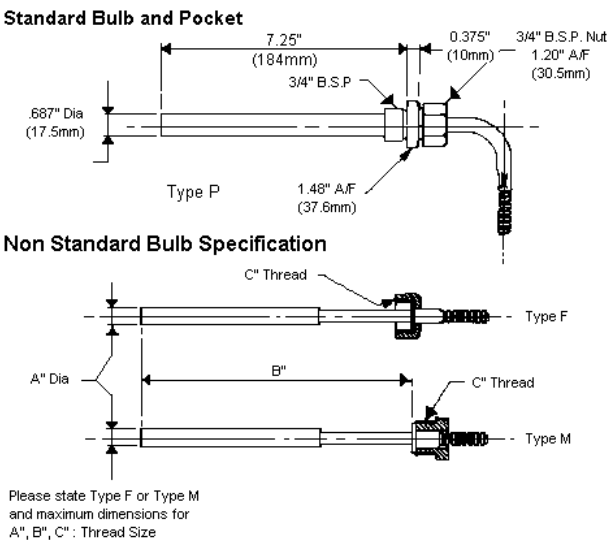
Options :

Anti-vibration mountings.
Anti-condensation heater.
Laminated safety glass window 99% UV blocking.
2, 3 or 4 High current rated, ATEX EEx d 11C approved switches. (5 Amp max)

**PVC coated capillary & stainless steel cases are available should the environment require it.
Contact factory for details.

Full on site installation, calibration and maintenance service available.
Please contact Accurate Controls for technical assistance.





INSTRUMENT SPECIFICATION SHEET

Quotation Request

A200

For replacement of an existing instrument please advise serial number if known			
Qty required		**Delivery required**	

Customer reference

Case Mounting	Surface		Flush / Panel inset	
Case Window	Standard Acrylic		Laminated Glass 99% UV blocking*	
Case Finish	Standard Painted (Normal Environments)		Customer specified (comments box)	

Note: Stainless Steel cases are available see A200S data sheet*

Capillary Length (metres)	Min 2 metre Max 30 metre				
Capillary Type			304 Stainless Steel Sheathed 304 Stainless Steel & PVC sheathed (*Harsh environments)		
Capillary Entry	Bottom			Rear	
Electrical Cable Entry	Bottom			Rear	
Bulb & Pocket Type	Accurate Std Bulb A501 DIN 42554 Std Bulb			Matching Pocket A501P	
Customer specified Bulb	Diameter Length			Thread Size Gender	
Customer specified matching Pocket	Y/ N			Mounting thread	
Scale Range	0 -120ºC 0 -150ºC		0 -160ºC 0 -180ºC		30 -150ºC
Instrument Type	OTI		WTI (Single gradient)		WTI (Dual Gradient)

1st Gradient Natural (ONAN)cooling	ºC	at	Amps
2nd Gradient Forced (OFAF) cooling	ºC	at	Amps

Note: Customer adjustable gradient instrument available see A200AG data sheet

Comments

Instrument Label	

Switch Options – select for each switch from table

Switch No	Part No.	Configuration	Switch No	Part No.	Configuration
1			3		
2			4		

Switch Option Table

A200 Micro-switch Options

Part No.	Description	Configuration
MZ5 13F	5 Amp AC Fixed Differential (3-5°C)	3 wire changeover
MZ6 90V (Max of 2)	5 Amp AC Adjustable Differential (Max 25% scale span)	

Analog Output for Remote Indication	Yes No		mA output options	0-10mA 2-10mA	0-20mA 4-20mA
Anti Vibration Mounts	Y / N		**Test Certificate**	Y/ N	

*** Harsh or Hazardous Environment** Contact Factory for further information

Warranty:

12 months supply only.

10 years for Accurate Controls installed instruments.

Please contact factory for installation

Submitted by:

Name	Company & Address	Tel No.	E-mail

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