TEMPERATURE CONTROLLER

Instrument Specification

C105

A precision, high current mercury switch,
Oil or Winding temperature controller for Alarm, Trip and Cooler 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
- Fully compensated for ambient temperature
- High current switching (15 Amps max.)
- Maximum number of control switches
 '5'
- Extra long capillary length 60 metres
- Weatherproof case to IP55*
 (Higher specification versions available)
- Maximum pointer & switch test knob
- Optional selectable analogue output
- Choice of scale options
- Full Installation and Maintenance
 Instructions supplied
- 10 year warranty when supplied <u>&</u>
 <u>fitted</u> by Accurate Controls Ltd
- RoHS compliant by exemption



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Indicating Scale:

Diameter:- 5.5" Angular Sweep – 270° Range:0-120°C, 0-150°C, 30-150°C

Accuracy: 1.5% FSD

Accuracy of indication:

To Class 1: EN13190:2001

Electrical Connections:

Full circuit diagram supplied.
All circuits insulation tested with 2000 Vac.
Terminal block conductor size: 0.5 – 4.5mm²

Switch Configurations:

Maximum 5 Normally Open or Normally Closed Switch Type: 8A @ 250V ac/DC (B115) Switch Type: 15A @ 250V ac/DC (B916)

Changeover Switches selectable by user for operation as normally open or normally closed.:

Wire Common Supply Connection.

Switch Type: 5A @ 250V ac/DC (B1886)

4 Wire Independent Supply connection.

Switch Type: 5A @ 250V ac/DC (B1895) Maximum '5' B115 or 4 of any other variant.

Winding Temperature simulation (where fitted)

Factory set gradients 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. (also digital or analog meters are available upon request)

Optional internal or external power pack with universal input voltage:

85-265Vac 47-63Hz or 70-360 Vdc

Lower DC input voltage range available by special request

Standard Case:

Steel with powder coat paint C5 finish Electrical entry point: rear & bottom Surface mount.

*Weatherproof to IP55—bottom entry capillary only

Capillary System:

Material: Capillary protected by stainless steel

sheathing. Optional P.V.C. outer cover.

Length: 2 to 60 metres.

Case entry point: Top, rear or bottom Ambient compensation as standard

Bulb and pocket to suit customer requirments.

Options:

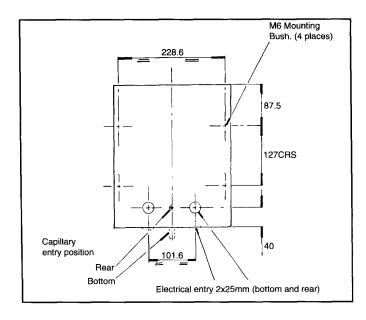
Anti-condensation heater.
Anti-vibration mountings.
Suface mounting with backstraps.
** PVC coated capillary & other cases are available should the environment require it.
Contact factory for details.

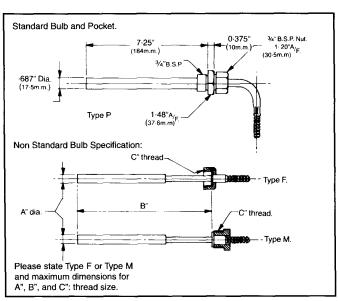
RoHS Compliant by Exemption:

The product qualifies for one of the specific exemptions as set out in the Annex to the RoHS Directive

Full on site installation, calibration and maintenance service available.

Please contact Accurate Controls Ltd. for variants of the above, or for technical assistance.





INSTRUMENT SPECIFICATION SHEET

Quotation Request

C105

For replacement of a			Custom	Customer reference			
Qty required Delivery required							
Case Mounting Case Window Case Finish	Surface only Standard Acrylic Standard Painted (Normal Environments)	Laminated Glass (p Mounting Kit 99% UV blocking) tomer Specified (comments box)				
Capillary Length (metres) Min 2 metre Max 60 metre				Comments			
Capillary Type 304 Stainless Steel Sheathed 304 Stainless Steel & PVC sheathed (*Harsh environments)							
Capillary Entry Bottom Rear Top Electrical Cable Entry Bottom Rear							
Bulb Type Accurate Std A501 Diameter Length Customer specified matching pocket Y/ N Mounting Thread 30 -150°C Scale range							
Instrument Type WTI (no gradient) 1st Gradient Natural cooling 2nd Gradient Forced cooling 3nd Gradient Forced C						<u>!</u>	
Instrument Label				Mercury Switch Options			
Switch Options — select for each s				Part No. B115	Description 8 Amp SPST	Configur NO	rations NC
1	Configuration Switch No 4	Part No.	Configuration	B916	15 Amp SPST	NO	NC
3	5			B1886	5 Amp SPDT	3 wire cha	ngeover
Switch Test Knob Standard Knob + wire lock post				B1895	5 Amp DPDT	4 wire changeover	
Analog Output for Remote Indication Yes Internal O-10mA O-20mA 4-20mA Anti Vibration Mounts Anti Condensation Heater (requires supply at specified voltage) * Harsh or Hazardous Environment PSU options Internal O-10mA O-20mA 4-20mA Test Certificate Y/ N O-20mA 4-20mA 12 months: supply only. 10 years: for Accurate Controls installed instruments. Please contact factory for installation quote. * Contact Factory for further information							
Submitted by:							
Name	Company & Address		Tel No.		E-mail		

Accurate Controls Ltd.

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