

**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 to 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 **& fitted** by Accurate Controls Ltd
- RoHS compliant by exemption



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Accurate Controls Ltd.

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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)

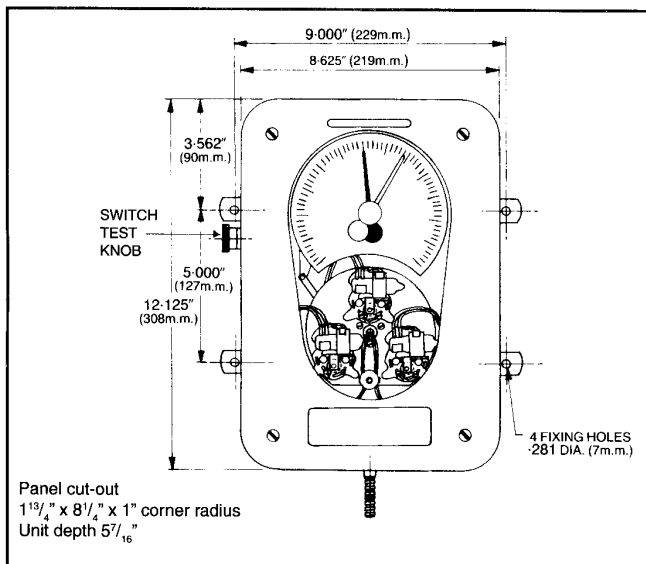
4 Wire Independent Supply connection.
Switch Type: 5A @ 250V ac/DC (B1895)

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

Full on site installation, calibration and maintenance service available.
Please contact Accurate Controls Ltd. for variants of the above, or for technical assistance.



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:

Aluminium.
Powder coat paint.
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 requirements.

Options:

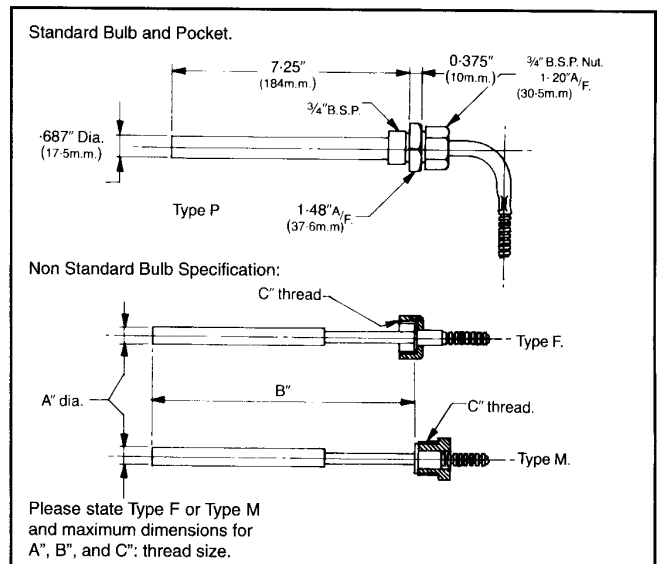
Anti-condensation heater.

Anti-vibration mountings.

** 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.



INSTRUMENT SPECIFICATION SHEET

Quotation Request

C102

For replacement of an existing instrument please advise serial number if known

Qty required

Delivery required

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)

Capillary Length (metres)

Min 2 metre
Max 60 metre

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

DIN 42554 Std

Customer specified

Diameter

Thread Size

Length

Gender

Customer specified matching pocket

Y/ N

Mounting Thread

Scale range

0 -120°C

0 -150°C

30 -150°C

Instrument Type

OTI

WTI (Single Gradient)

WTI (no gradient)

WTI (Dual Gradient)

1st Gradient Natural cooling

°C

at

Amps

2nd Gradient Forced cooling

°C

at

Amps

Instrument Label

Switch Options – select for each switch from table

Switch No	Part No.	Configuration	Switch No	Part No.	Configuration
1			4		
2			5		
3					

Switch Test Knob

Standard Knob

+ wire locking post

Analog Output for Remote Indication

Yes

No

PSU

Internal

External

mA output options

0-10mA

2-10mA

0-20mA

4-20mA

Anti Vibration Mounts

Y/ N

Test Certificate

Y/ N

Anti Condensation Heater (requires supply at specified voltage)

110

V

240V

* Harsh or Hazardous Environment

Contact Factory for further information

Submitted by:

Name	Company & Address	Tel No.	E-mail

Customer reference

Comments

Switch Options Table

C102 Mercury Switch Options			
Part No.	Description	Configurations	
B115	8 Amp SPST	NO	NC
B916	15 Amp SPST	NO	NC
B1886	5 Amp SPDT	3 wire changeover	
B1895	5 Amp DPDT	4 wire changeover	

Warranties:

12 months: Supply only.

10 years: for Accurate Controls installed instruments.

Please contact factory for installation quote.

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