



INDO ALLINCO IMPEX

Excellent Quality.

Exemplary Service.

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## **Condense Product Catalogue**



INDO ALLINCO IMPEX

## About Us

**INDO ALLINCO IMPEX** is one of the leading manufacturer and exporter of Precision Monitoring and Controls Equipments for various industries. With continued support from our valued customers, we have been able to serve various industrial sectors from past 3 decades.

An enterprising approach over the decades steered INDO ALLINCO IMPEX -from its modest beginning to its present capabilities and established itself as a front runner in field of Precision Monitoring & Controls Equipment's. IAI's strengths are its promoters with rich experience & of technical caliber which has made IAI deliver products which are in phase with latest technology.



## PRODUCT PROFILE

- Pressure Measurements (Gauges/Transmitters)
- Temperature Measurements (Gauges/Sensors)
- Level Measurements (Gauges/Switches/Transmitters)
- Flow Measurements (Switches/Meters)
- Transformer Temperature Monitoring and Controls System
- Bearing Temperature Monitoring and Controls System
- Customized Products (Gauges/Sensors)

## BOURDON TUBE TYPE

- Industrial Type/ Commercial
- Accuracy as per EN 837-1
- 0 to 700 kg/cm<sup>2</sup>
- Mounting Bottom/ Back/ Panel



Pressure Range



Vaccum Range



Compound Range

## CHEMICAL SEAL (Threaded)

- SS Construction
- Accuracy as per EN 837-1
- 0 to 420 kg/cm<sup>2</sup>
- Mounting Bottom/ Back
- Teflon coated/ Lined available



Bolted



Welded



Flush Diaphragm

## CHEMICAL SEAL (Flanged)

- SS Construction
- Accuracy as per EN 837-1
- 0 to 420 kg/cm<sup>2</sup>
- Mounting Bottom/ Back
- Teflon coated/ Lined available



Flush Diaphragm



Integral Diaphragm



Teflon Coated/ Lined

## PHARMA GAUGES

- All SS316L wetted part
- Accuracy as per EN 837-1
- 0 to 42 kg/cm<sup>2</sup>
- Mounting Bottom / Back/ Panel
- Homogenizer with 0 to 420 kg/cm<sup>2</sup>
- Dairy & Food application



Homogenizer



Triclover



SMS Connection

## DIAPHRAGM TYPE

- SS/ Brass Construction
- Accuracy as per EN 837-1
- -600 mmWC to 10000 mmWC
- Mounting Bottom
- Teflon coated/ Lined available for SS Construction



Low Pressure  
(SS Internals)



Compact Capsule  
(Brass Internals)

## DIFFERENTIAL TYPE

- SS/ Brass Construction
- Accuracy as per EN 837-1
- -600 mmWC to 16 kg/cm<sup>2</sup>
- Mounting Bottom
- Available with chemical seals





### DIAL THERMOMETERS

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#### BI-METAL

- Bi-metallic sensing element
- -50 to 400°C measuring range
- Weatherproof to IP68 per IS/IEC 60529:2001



BI-METAL



LIQUID FILLED



GAS FILLED

#### LIQUID FILLED

- Liquid filled sensing element
- Range(-) 100 to 250°C measuring range
- Weatherproof to IP68 per IS/IEC 60529:2001

#### GAS FILLED (with Contacts)

- Gas filled sensing element
- Range(-) 100 to 600°C measuring range
- Weatherproof to IP68 per IS/IEC 60529:2001

### THERMOWELL ASSEMBLIES

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THREADED



FLANGED



WELDED



SANITARY

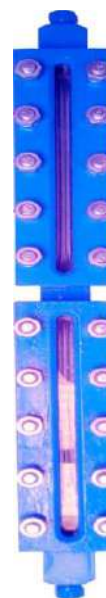
## TUBULAR

- Total length : 400-1500mm
- Operating parameters : Upto 150°C and 10 kg/cm<sup>2</sup>



## REFLEX (SIDE-SIDE)

- Total length : 170-3000mm
- Operating parameters : Upto 400°C and 210 kg/cm<sup>2</sup>



## TRANSPARENT

- Total length : 170-3000mm
- Operating parameters : Upto 400°C and 210 kg/cm<sup>2</sup>



## MAGNETIC

- Total length : 300-5000mm
- Operating parameters : Upto 400°C and 100 kg/cm<sup>2</sup>



## FLOAT GUIDED

- Operating parameters : Upto 100 °C and 5 kg/cm<sup>2</sup>
- Liquid density : >0.7 g/cm<sup>3</sup>



## DISPLACER

- Operating parameters : Upto 300°C and 100 kg/cm<sup>2</sup>



## SIDE MOUNTED

- Operating parameters : Upto 350°C and 20 kg/cm<sup>2</sup>
- Liquid density : >0.7 g/cm<sup>3</sup>



## CABLE FLOAT

- Operating parameters : Upto 70°C and 210 kg/cm<sup>2</sup>
- Liquid density : >0.75 g/cm<sup>3</sup>



### CAPACITANCE

- Operating parameters : Upto 150 °C and 5 kg/cm<sup>2</sup>
- For liquids & solid



### FLOAT GUIDED

- Operating parameters : Upto 100°C and 10 kg/cm<sup>2</sup>



### SUBMERSIBLE

- Compact design for narrow openings
- Maximum temperature : Upto 70°C
- Internal mounting



### SUBMERSIBLE

- Compact design for narrow openings
- Maximum temperature : Upto 70°C
- External mounting





# ELECTROMAGNETIC FLOW METERS

## FLANGE TYPE



### FEATURES

- High Accuracy
- Insignificant Pressure Drop
- Bidirectional Flow
- SS Construction
- No Moving Parts
- 3 Line Lcd Backlit Display
- Multiple Communication Protocols
- Process Connection As Per  
Asme / En / Awwa / Jis
- Built-in Diagnostics

### SPECIFICATIONS

Conductivity	- 20 $\mu\text{s} / \text{cm}$ (minimum)
Accuracy	- $\pm 0.5\%$ of span
Flow velocity	- 1 to 5 m/s (for calibration) 1 to 10 m/s (working range)
Display	- LCD with backlight
Temperature	- Ambient : $-16^{\circ}\text{C}$ to $+50^{\circ}\text{C}$ Process : $-20^{\circ}\text{C}$ to $+160^{\circ}\text{C}$
Pressure	- Max 20 bar
Line size	- 1" to 4"
Process connection	- Flange type Tri-clamp type Sandwich type
Body	- SS 316
Measuring tube	- SS 316
Electrodes	- SS 316, Hastelloy, Titanium
Grounding ring	- SS 316
Liners	- Hard Rubber, PTFE, PFA, Neoprene
Output	- 4~20mA, Pulse and Relay output
Communication	- Modbus, HART (Optional)
Power supply	- 24V DC / 230 V AC
Transmitter housing design	- Integral mount & remote mount

### APPLICATIONS

- **Water & Wastewater**  
Water purifier, fluid metering, chemical dosing
- **Chemical Industries**  
Chemical feed control
- **Food & Beverage Industries**  
Water treatment, chemical dosing
- **Pharmaceutical Industries**  
Process control
- **Iron and Steel Industries**  
Chilled water control
- **Oil & Gas**  
Wastewater



Flow switches have been designed for the direct control of fluid flow in various sizes of pipelines. These FSP series flow switches are magnetically coupled paddle type flow switches. The FSP series offers wide flexibility in the choice of line sizes as per flow ranges.

### APPLICATIONS

- **Coolant monitoring**
- **Power, steel & chillers plants**
- **Water treatment plants**
- **Induction heating & laser cooling systems**
- **Pump dry run protection**

### SPECIFICATIONS

Instrument connection	- 1.5" NPT/BSP (M) or Others on request
Set point adjustment	- upto 1" to 6" pipeline
Enclosure class	- Die Cast Aluminium Flameproof suitable to Gr. IIA / IIB to IP 67 with CMRI & CCOE or SS316
Cable entry	- 1/2" NPT (F)
Maximum working pressure	- 50 Bar
Working temperature range	- 10 - 100°C
Pressure drop	- <150 mbar at Q maximum. (For Qmax. Refer flow range table)
MOC of wetted parts	- SS 316
Set point tolerance	- $\pm 3 \sim 5 \%$
Repeatability tolerance	- $\pm 1 \%$
Electrical rating	- 1 A, 230 V AC/DC 50 V Reed Switch 5 A, 230 V AC/DC 50 VA Micro Switch
Measured value	- Flow of fluids

# TRANSFORMER MONITORING & CONTROLS

## Model No: 6031-H

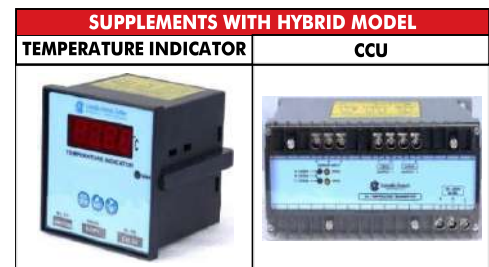
### Description:

Model 6031(H), the Instrument is used for indicating and controlling of Temperature for oil cooled transformers. Top oil is directly sensed by the sensing bulb (**OTI**) and Winding temperature of the transformer is simulated using CT secondary current over the Top oil temperature (**WTI**).

H\*: Hybrid model where temperature is sensed by PT100 sensor which is embedded inside the sensing bulb.

### Features:

- 60°C angular sweep with 2°C graduation
- Large 115mm segment Dial diameter
- Accuracy +/-1.5% over FSD
- Built-in thermal imaging for transformer 'HOT Spot' temperature indication(in case of WTI)
- Up to max 2 Heavy Duty Micro Switch for control operation
- Weather proof, Aluminum Pressure Die-Cast case for outdoor service(IP55) as per IEC 529
- Hybrid models will be provided with Internal or External CCU.



## Model No: 6006-H

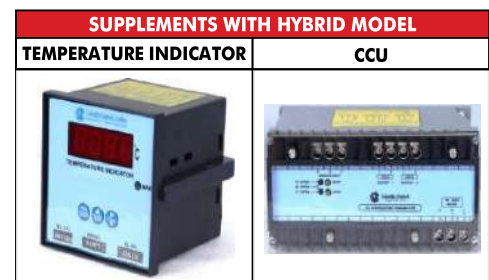
### Description:

Model 6006(H), the Instrument is used for indicating and controlling of Temperature for oil cooled transformers. Top oil is directly sensed by the sensing bulb (**OTI**) and Winding temperature of the transformer is simulated using CT secondary current over the Top oil temperature (**WTI**).

H\*: Hybrid model where temperature is sensed by PT100 sensor which is embedded inside the sensing bulb.

### Features:

- 270°C angular sweep with 2°C graduation
- Large 150mm Dial diameter
- Accuracy +/-1.5% over FSD
- Built-in thermal imaging for transformer 'HOT Spot' temperature indication(in case of WTI)
- Up to max 2 Heavy Duty Micro Switch for control operation
- Weather proof, Aluminum Pressure Die-Cast case for outdoor service(IP55) as per IEC 529
- Hybrid models will be provided with Internal or External CCU.



# TRANSFORMER MONITORING & CONTROLS

## Model No: 6005-H

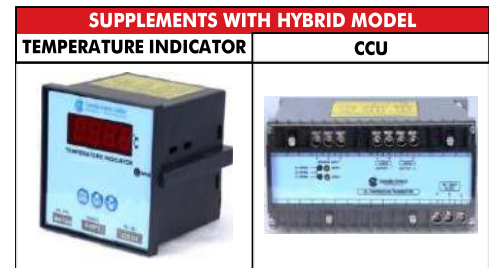
### Description:

Model 6005 (H), the Instrument is used for indicating and controlling of Temperature for oil cooled transformers. Top oil is directly sensed by the sensing bulb (**OTI**) and Winding temperature of the transformer is simulated using CT secondary current over the Top oil temperature (**WTI**).

H\*: Hybrid model where temperature is sensed by PT100 sensor which is embedded inside the sensing bulb.

### Features:

- 270°C angular sweep with 1°C graduation
- Large 150mm Dial diameter
- Accuracy +/-1.5% over FSD
- Built-in thermal imaging for transformer 'HOT Spot' temperature indication(in case of WTI)
- Up to max 5 Heavy Duty Micro Switch for control operation
- Weather proof, Aluminum Pressure Die-Cast case for outdoor service(IP55) as per IEC 529
- Hybrid models will be provided with Internal or External CCU.
- Optional 440Ω or 2.8KΩ potentiometer output is provided.



## Model No: 6007-H

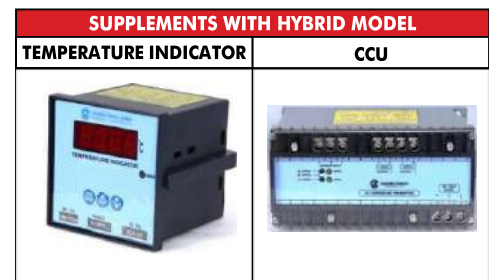
### Description:

Model 6007(H), the Instrument is used for indicating and controlling of Temperature for oil cooled transformers. Top oil is directly sensed by the sensing bulb (**OTI**) and Winding temperature of the transformer is simulated using CT secondary current over the Top oil temperature (**WTI**).

H\*: Hybrid model where temperature is sensed by PT100 sensor which is embedded inside the sensing bulb.

### Features:

- 60°C angular sweep with 2°C graduation
- Large 115mm Dial diameter
- Accuracy +/-1.5% over FSD
- Built-in thermal imaging for transformer 'HOT Spot' temperature indication(in case of WTI)
- Up to max 4 Heavy Duty Micro Switch for control operation
- Weather proof, Aluminum Pressure Die-Cast case for outdoor service(IP55) as per IEC 529
- Hybrid models will be provided with Internal or External CCU.
- Optional 440Ω or 2.8KΩ potentiometer output is provided.



# TEMPERATURE

## Sensors

### RTD SENSORS

- Pt 100, 3/4 - wire, others on request
- Class A / higher accuracy
- -50 to 400°C measuring range
- Flameproof design available



### SANITARY SENSORS

- Pt 100, 3/4-wire, other calibration available
- -50 to 250°C other ranges available
- Class A / higher, accuracy
- 4-20 mA on request
- Flameproof design available



Polypropylene  
head

Aluminium  
head

SS mini  
head

### SPECIAL PURPOSE RTD

#### AUTOCLAVE (SILICONE RUBBER)

- Pt 100, 3/4 - wire
- Class A / higher accuracy
- 0 TO 150°C measuring range



#### TEFLON INSULATED CABLE

- Pt100, 3/4-wire
- Class A / higher accuracy
- 0 to 150°C measuring range



### RTD WITH M12 CONNECTOR

- Pt 100, 3- wire
- Class A / higher accuracy
- -50 to 200°C measuring range





# TRANSFORMER MONITORING & CONTROLS

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## Model No : 1012

### Features:

- High Performance Instruments
- Dial size : 6", Range : 150°C, SS Stem OD X Length – 12.5 x 200 mm
- Casing : Heavy Duty Die Cast Aluminium
- Electrical Contact with 2 Nos. Switch Type for Alarm & Trip Mechanism



## Model No : GDT-MRP

### Features:

- For Small Distribution Transformer, Tank Mounted
- Dial size : 4", Range : 150°C, SS Stem OD X Length – 10 x 200 mm
- Casing : AISI SS 304, Case & Bezel, weather proof
- MRP : Provided with Maximum Reading Pointer (Red Color)



## Model No : GDT- (Without MRP)

### Features:

- For Small Distribution Transformer, Tank Mounted
- Dial size : 4", Range : 150°C, SS Stem OD X Length – 10 x 200 mm
- Casing : AISI SS 304, Case & Bezel, weather proof



## Model No : 1135:100:ST

### Features:

- For Small Power & Distribution Transformer, Tank Mounted / ESP Rectifier Transformer
- Dial size : 4", Range : 100°C, SS Stem OD X Length – 10 x 200 mm
- Casing : AISI SS 304, Case & Bezel, weather proof
- Electric Contact Stem Type Oil Temperature Indicator with 1 NO & 1NC Contacts



# BEARING TEMPERATURE MONITORING AND CONTROL SYSTEM

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## Dial Type BTM (for BHEL Motors)

### Features:

- Dial size : 6", Range : 150°C, SS Stem OD X Length – 12 x 63 mm
- Capillary – 3 mtr long, SS316 Micro-bore Capillary covered with SS304 Armour, overall covered with extruded PVC coating, flexible at bottom entry of the case
- Electric Contact : 1 NO Contact for Alarm & 1 NO Contact for Trip, Electro-Mechanical Magnetic Snap action type potential free Contact, close to rise in temperature.
- Rated at : 250 V AC 5A (With Built-in Relay type)



## Dial Type BTM (for Crompton Greaves Motors)

### Features:

- Dial size : 6", Range : 150°C, SS Stem OD X Length – 10 x 50 mm bend at 90°C
- Capillary – 2 mtr long, SS316 Micro-bore Capillary covered with SS304 Armour, overall covered with extruded PVC coating, flexible at bottom entry of the case
- Electric Contact : 1 NO Contact for Alarm & 1 NO Contact for Trip, potential free Disc Contact, close to rise in temperature.
- Rated at : 250 V AC 5A (With Built-in Relay type)



## Turbine Bearing Temperature Detector

### Features:

- Dial size : 4" & 6", Range : 120°C, SS Stem OD X Length – 14 x 222 mm (Vary)
- Capillary – upto 50 mtr long, SS316L Micro-bore Capillary covered with SS304 Armour, overall covered with extruded PVC coating, flexible at back entry of the case, bending within 100mm radius
- Electric Contact : 1 NO Contact for Alarm & 1 NO Contact for Trip, Electro-Mechanical Magnetic Snap action type potential free Contact, close to rise in temperature.



## Dial Type BTM ( SPDT Micro-Switch)

### Features:

- Dial size : 4" & 6", Range : 150°C, SS Stem OD X Length – 12.5 x 235 mm
- Capillary – upto 50 mtr long, SS316L Micro-bore Capillary covered with SS304 Armour, overall covered with extruded PVC coating, flexible at bottom entry of the case, bending within 100mm radius
- Electric Contact : 2 nos, SPDT Type Micro Switch Contact adjustable over the range for Alarm & Trip Mechanism Contact Rated at 5A 250 V AC / 0.5A 220 V DC **(without Auxiliary Power Supply Input)**
- Provided with Contact Cable with PVC coated Conduit





**INDO ALLINCO IMPEX**

## **INDO ALLINCO IMPEX**

***International Business Division :***

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