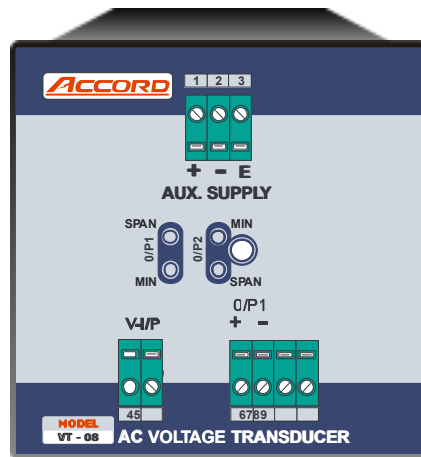


# AC VOLTAGE & CURRENT TRANSDUCER (DIN RAIL)



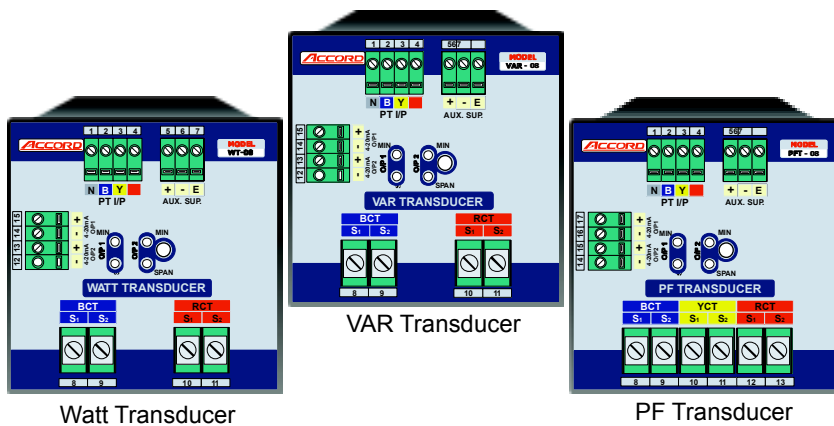
## FEATURES:

- Static design, no moving parts.
- Quick Response Time.
- Output independent of load impedance.
- Computerized Circuit design.
- Components have high thermal withstand capacity & can survive extreme tropical atmospheric conditions.
- Stable output even in case of wide power supply fluctuations (for self-powered & Aux. Powered transducers).
- Galvanic isolation between input / output / auxiliary power supply.
- Standard DIN Rail mounting, cabinets.

## GENERAL SPECIFICATIONS

Model No.	AC CURRENT (AT - 08)	AC VOLTAGE (VT - 08)
Type		P to N or Ph to PH
Rated Input	0-1A or 0-5A Through the CT	0-63.5 or 0-110V AC Through PT
Measurement Range	0-5A	0-63.5 or 0-143.5V AC
Continuous Overload Capacity	X 2 (I)	X 1.2 (V)
OL for 1 Sec	X 10 (I)	X 2 (V)
Out Put	4-20mA (500 Max. Load). 02 Nos.	
Type Of Measurement	RMS or True RMS	
Response Time	< 300ms	
Aux. Supply	<ul style="list-style-type: none"> <li>➤ 85 to 250V AC/DC (SMPS).</li> <li>➤ 30 to 100VDC.</li> <li>➤ 110, 240VAC ±10%, 50Hz, 1-Φ.</li> <li>➤ 24, 110, 220VDC 10%.</li> <li>➤ Self Powered (energy derived from monitored source).</li> <li>➤ Specify any one while ordering.</li> </ul>	
Burden on Aux. Supply	< 4VA	< 4VA
Burden on monitored source	< 0.5 VA	< 0.5 VA
Accuracy	±0.2% OR ±0.5% OR ±1.0% of span	
Output Ripple	Maximum 0.5% P to P.	
Ambient conditions	Storage: -20°C to +70°C, upto 95% RH Non-Condensing. Working: 0°C to 55°C, 95% RH Non-Condensing.	
Effect of ambient Temperature	0.05% of Span / 0°C	
Isolation Test Voltage Between input / output / Aux. Supply	Dielectric Strength at 2.0KV AC for 1 Minute. Optional 5.0KV AC Test can also be done.	
Insulation Resistance	> 100MΩ at 500V DC between all input terminals shorted together and earth.	
Zero / Span Adjustment	Available externally. Maximum upto 20% of the output span.	
Size	96Wmm X 96Dmm X 70Hmm	
Mounting	DIN RAIL, 35mm.	
Enclosure	Engineering Plastic Enclosure.	
Terminals	Suitable for 2.5mm <sup>2</sup> wire.	
Protection	Input & Output → short circuit & open circuit protected.	
Class Conformation	General Conformation to BIS12784 (Part 1) / IEC688	

# WATT, VAR, PF TRANSDUCER (DIN RAIL)



## FEATURES:

- Static design, no moving parts.
- Quick Response Time.
- Output independent of load impedance.
- Computerized Circuit design.
- Components have high thermal withstand capacity & can survive extreme tropical atmospheric conditions.
- Stable output even in case of wide power supply fluctuations (for self-powered & Aux. Powered transducers).
- Galvanic isolation between input / output / auxiliary power supply.
- Standard DIN Rail mounting, cabinets.

## GENERAL SPECIFICATIONS:

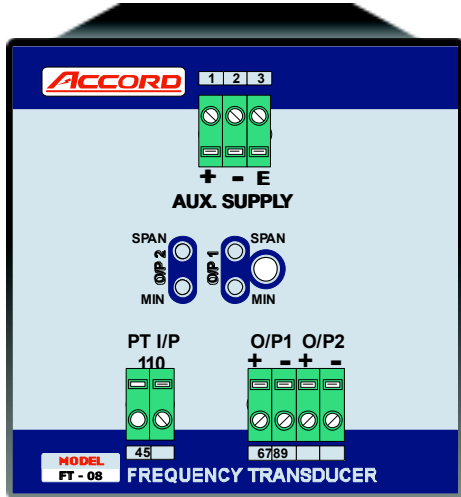
Model No	WATT TRANSDUCER (WT – 08)	VAR TRANSDUCER (VAR – 08)	PF TRANSDUCER (PFT – 08)
<b>Type</b>	2 or 3 ELE. Uni or Bi-Directional	2 or 3 ELE. Uni or Bi-Directional	2 or 3 ELE. 1 ELE.
<b>Rated Input</b>	0-1A or 0-5A 0-63.5 or 0-110VAC Through CT, PT	0-1A or 0-5A 0-63.5 or 0-110VAC Through CT, PT	0-1A or 0-5A 0-63.5 or 0-110VAC Through CT, PT
<b>Measurement Range</b>	WATT (Export & Import) 0-Max (of Given Range by User)	VAR (LEAD & LAG) 0-Max (of Given Range by User)	0.5 LEAD-0-0.5LAG 0-Max (of Given Range by User)
<b>Continuous Overload Capacity</b>	X 2 (I), X 1.2 (V)	X 2 (I), X 1.2 (V)	X 2 (I), X 1.2 (V)
<b>OL for 1 Sec</b>	X 10 (I), X 2 (V)	X 10 (I), X 2 (V)	X 10 (I), X 2 (V)
<b>Out Put</b>	<ul style="list-style-type: none"> <li>➤ 0-20mA or 4-20mA (500 Max. Load).</li> <li>➤ 0-10V (5KO) or 5V (2.5KO).</li> <li>➤ RS232/485, MODBUS RTU Protocol.</li> <li>➤ 4-12-20mA / -10-0+10mA (for Bi-Directional Transducer Type PFT-08,WT-08, VAR-08)</li> <li>➤ Any other Output Range can also be supplied on request</li> </ul> Single Output of any one type (slandered), Dual Output of any one type(Optional)		
<b>Type Of Measurement</b>	RMS or True RMS		
<b>Response Time</b>	< 300ms		
<b>Aux. Supply</b>	<ul style="list-style-type: none"> <li>➤ 85 to 250V AC/DC (SMPS).</li> <li>➤ 30 to 100VDC.</li> <li>➤ 110, 240VAC ±10%, 50Hz, 1–F</li> <li>➤ 24, 110, 220VDC 10%.</li> <li>➤ Self Powered (energy derived from monitored source).</li> </ul> Specify any one while ordering.		
<b>Burden on Aux. Supply</b>	< 4VA	< 4VA	< 4VA
<b>Burden on monitored source</b>	< 0.5 VA	< 0.5 VA	< 0.5 VA
<b>Accuracy</b>	±0.2% OR ±0.5% OR ±1.0% of span		
<b>Output Ripple</b>	Maximum 0.5% P to P.		
<b>Ambient conditions</b>	Storage: –20°C to +70°C, upto 95% RH Non-Condensing. Working: 0°C to 55°C, 95% RH Non-Condensing.		
<b>Effect of ambient Temperature</b>	0.05% of span /0° C		
<b>Isolation Test Voltage Between input / output / Aux. Supply</b>	Dielectric Strength at 2.0KV AC for 1 Minute. Optional 5.0KV AC Test can also be done.		
<b>Insulation Resistance</b>	> 100MΩ at 500V DC between all input terminals shorted together and earth.		
<b>Zero / Span Adjustment</b>	Available externally. Maximum upto 20% of the output span.		
<b>Size</b>	96Hmm x96Vmm x70Wmm		
<b>Mounting</b>	DIN RAIL, 35mm.		
<b>Enclosure</b>	Engineering Plastic enclosure.		
<b>Terminals</b>	Suitable for 2.5 mm <sup>2</sup> wire.		
<b>Protection</b>	Input & Output → short circuit & open circuit protected.		
<b>Class Conformation</b>	General Conformation to BIS12784 (Part 1) / IEC688		

**ACCORD ELECTRO-TECHNICS PVT. LTD.**

208A, Suchita Industrial Estate, Opp. Oswal Park, Pokharan Road No. 2, **THANE (W)-400601**. Maharashtra.

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# FREQUENCY TRANSDUCER (DIN RAIL)



FREQUENCY TRANSDUCER

## FEATURES:

- Static design, no moving parts.
- Quick Response Time.
- Output independent of load impedance.
- Computerized Circuit design.
- Components have high thermal withstand capacity & can survive extreme tropical atmospheric conditions.
- Stable output even in case of wide power supply fluctuations (for self-powered & Aux. Powered transducers).
- Galvanic isolation between input / output /auxiliary power supply.
- Standard DIN Rail mounting, cabinets.

## GENERAL SPECIFICATIONS:

<b>Model No.</b>	<b>(FT – 08)</b>
<b>Type</b>	P – N or PH to PH
<b>Rated Input</b>	0-63.5 or 0-110 V AC Through the PT
<b>Measurement Range</b>	45-55 Hz
<b>Continuous Overload Capacity</b>	X 1.2 (V)
<b>OL for 1 Sec</b>	X 2 (V)
<b>Out Put</b>	<ul style="list-style-type: none"> <li>➤ 0-20mA or 4-20mA (500 Max. Load).</li> <li>➤ 0-10V (5KO) or 5V (2.5KO).</li> <li>➤ RS232/485, MODBUS RTU Protocol.</li> <li>➤ 4-12-20mA</li> <li>➤ Any other Output Range can also be supplied on request</li> <li>➤ Single Output of any one type (slandered), Dual Output of any one type(Optional)</li> </ul>
<b>Type Of Measurement</b>	RMS or True RMS
<b>Response Time</b>	< 300ms
<b>Aux. Supply</b>	<ul style="list-style-type: none"> <li>➤ 85 to 250V AC/DC (SMPS).</li> <li>➤ 30 to 100VDC.</li> <li>➤ 110, 240VAC <math>\pm 10\%</math>, 50Hz, 1-<math>\Phi</math>.</li> <li>➤ 24, 110, 220VDC 10%.</li> <li>➤ Self Powered (energy derived from monitored source).</li> <li>➤ Specify any one while ordering.</li> </ul>
<b>Burden on Aux. Supply</b>	< 4VA
<b>Burden on monitored source</b>	< 0.5 VA
<b>Accuracy</b>	$\pm 0.2\%$ OR $\pm 0.5\%$ OR $\pm 1.0\%$ of span
<b>Output Ripple</b>	Maximum 0.5% P to P.
<b>Ambient conditions</b>	Storage: $-20^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ , upto 95% RH Non-Condensing. Working: $0^{\circ}\text{C}$ to $55^{\circ}\text{C}$ , 95% RH Non-Condensing.
<b>Effect of ambient Temperature</b>	0.05% of span / $0^{\circ}\text{C}$
<b>Isolation Test Voltage Between input / output / Aux. Supply</b>	Dielectric Strength at 2.0KV AC for 1 Minute. Optional 5.0KV AC Test can also be done.
<b>Insulation Resistance</b>	> 100M $\Omega$ at 500V DC between all input terminals shorted together and earth.
<b>Zero / Span Adjustment</b>	Available externally. Maximum upto 20% of the output span.
<b>Size</b>	96Hmm x96Vmm x70Wmm
<b>Mounting</b>	DIN RAIL, 35mm.
<b>Enclosure</b>	Engineering Plastic enclosure.
<b>Terminals</b>	Suitable for 2.5 mm <sup>2</sup> wire.
<b>Protection</b>	Input & Output $\rightarrow$ short circuit & open circuit protected.
<b>Class Conformation</b>	General Conformation to BIS12784 (Part 1) / IEC688

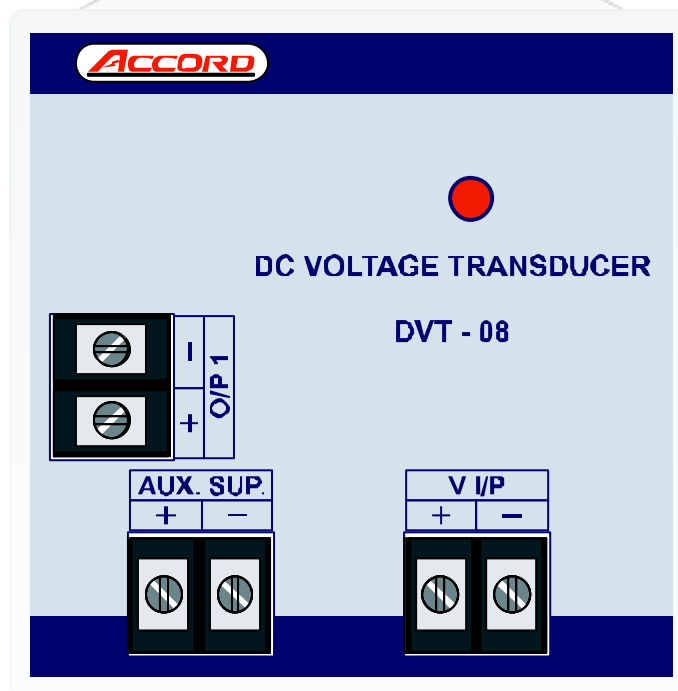
**ACCORD ELECTRO-TECHNICS PVT. LTD.**

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<b>DC VOLTAGE TRANSDUCER</b>	<b>MODEL NO. DVT - 08</b>
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**INSTRUMENT FRONT SIDE**



**TECHNICAL SPECIFICATIONS:**

1.	MODEL NO.	:	DVT - 08
2.	Auxiliary Supply	:	90-270V AC/DC
3.	Output	:	4-20mA DC. Isolated from Aux. supply & input current connection. Maximum loop resistance $\leq$ 500 Ohm
4.	DC Input	:	0-250V DC
5.	Overall dimensions	:	96 X 96mm, 80mm depth.
6.	Mounting	:	Din Rail mounting.
7.	Class of Accuracy	:	0.5%

**UNPACKING & INSTALLATION:**

- 1) The instrument is designed to give trouble free performance for many years to come & to withstand wear & tear in industrial atmosphere.
- 2) The instrument is a delicate electronic device. Handle it with utmost care.
- 3) Unpack carefully & avoid dropping & rough handling.

### **INSTRUCTIONS FOR OPERATION:**

1. Connect the auxiliary supply with correct polarity & voltage rating as shown in the external wiring diagrams.
2. Establish the DC I/P connections as shown in the wiring diagram.
3. The instrument is calibrated for I/P = 0-250V corresponds to O/P = 4-20mA.
4. Ensure that the auxiliary supply voltage is maintained at its rated.
5. For proper operation of the Transducer & to avoid damage to the instrument, the auxiliary supply voltage should never cross the specified limits.

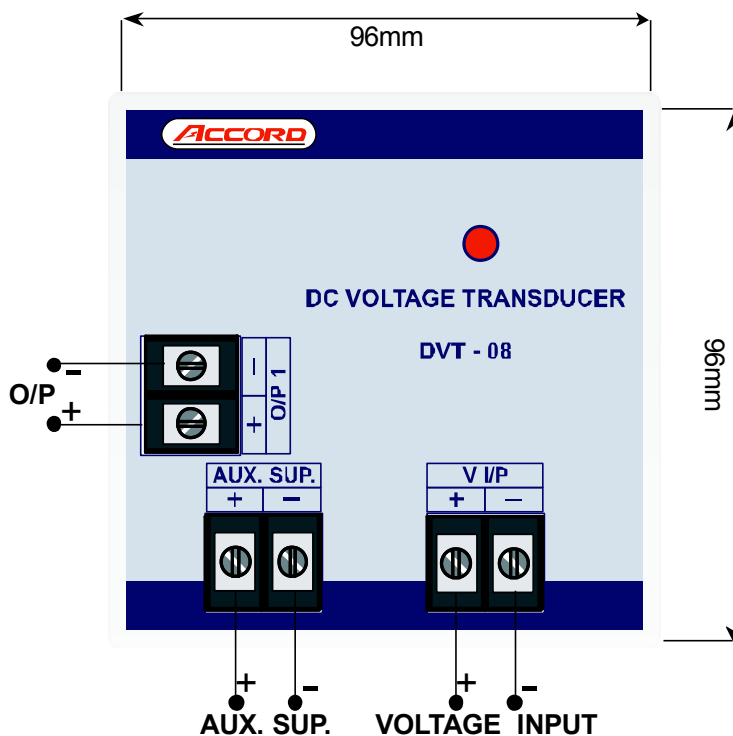
### **INTRODUCTION :**

Accord has designed DC VOLTAGE TRANSDUCER suitable to use in Substation, Captive plants, Generators, where 4-20mA signal is to be isolated from monitoring instrument such as SCADA etc. The TRANSDUCER accepts 0-250V DC I/P. The TRANSDUCER offers very low impedance to source to avoid loading effect. The instrument has 4-20mA at O/P & provides galvanic isolation between I/P & O/P.

The Instrument is factory calibrated. It is recommended that instrument is not to be recalibrated at site as it requires highly stable standard sources, & monitoring meters. Only skilled person can calibrate instrument. Hence for recalibration the Instrument shipped to our authorized service station the address of which is given below.

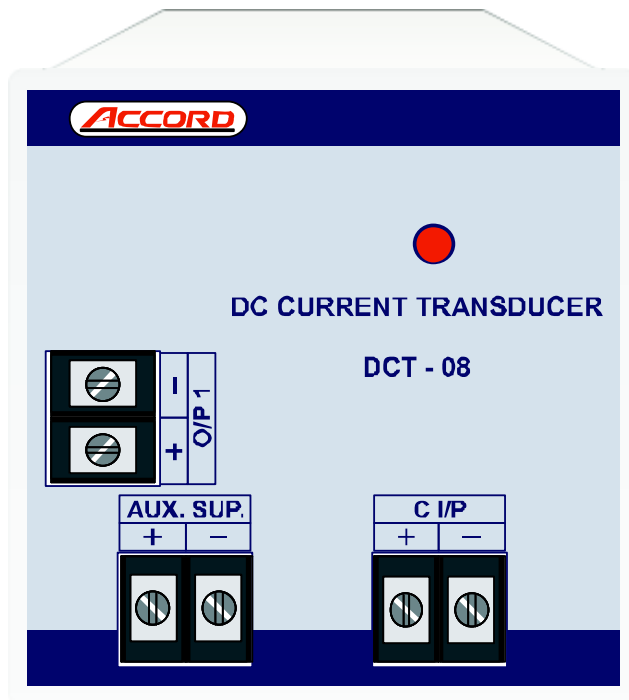
The Instrument is to be wired as shown in external wiring diagram given elsewhere manual.

### **EXTERNAL WIRING DIAGRAMS FOR DC VOLTAGE TRANSDUCER**



**ACCORD ELECTRO-TECHNICS PVT. LTD.**

208A, Suchita Industrial Estate, Opp. Oswal Park, Pokhran Road No. 2, Thane (W) – 400601. Maharashtra  
Telefax : 0091 22 6151 2727, 21736436, E-mail : [accordelectro@gmail.com](mailto:accordelectro@gmail.com)

**DC CURRENT TRANSDUCER****MODEL NO.  
DCT - 08****INSTRUMENT FRONT SIDE****TECHNICAL SPECIFICATIONS:**

1.	MODEL NO.	:	DCT-08
2.	Auxiliary Supply	:	90-270V AC/DC
3.	Out put	:	4-20 mA DC. Isolated from Aux. & current I/P connection. Maximum loop resistance $\leq$ 600 Ohm
4.	CT Input	:	0-75Mv Shunt input
5.	Overall dimensions	:	96 X 96mm, 80mm depth.
6.	Mounting	:	Din Rail mounting.
7.	Class of Accuracy	:	0.5 %

**UNPACKING & INSTALLATION:**

- 1) The instrument is designed to give trouble free performance for many years to come & to withstand wear & tear in industrial atmosphere.
- 2) The instrument is a delicate electronic device. Handle it with utmost care.
- 3) Unpack carefully & avoid dropping & rough handling.

**ACCORD ELECTRO-TECHNICS PVT. LTD.**

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### **INSTRUCTIONS FOR OPERATION:**

1. Connect the auxiliary supply with correct polarity as shown in the external wiring diagrams.
2. Establish the DC shunt connections as shown in the wiring diagram.
3. The instrument is calibrated to the shunt ratio specified while ordering.
4. Ensure that the auxiliary supply voltage is maintained at its rated.
5. For proper operation of the Transducer & to avoid damage to the instrument, the auxiliary supply voltage should never cross the specified limits.

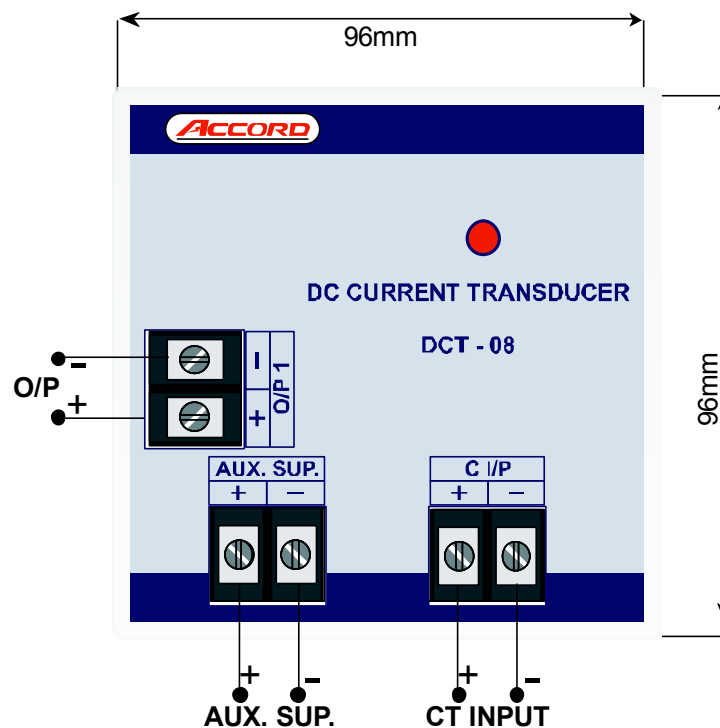
### **INTRODUCTION :**

Accord has designed current Transducer suitable to use in Electrical substation, Captive plants, Generators, where Electrical power is monitor by remote meters or through SCADA system where 4-20mA dc current is required . Accord current Transducer accept field 0-75mV shunt input. The Instrument is calibrated for O/P 4-20mA i.e. 4mA at Zero mV & 20mA at full scale . 4-20mA O/P provided is isolated from Aux. Supply & CT for safety of monitoring instruments.

The Instrument is factory calibrated. It is recommended that instrument is not to be recalibrated at site as it requires highly stable standard sources, & monitoring meters. Since process involves soft ware calibration, only skilled person can calibrate instrument. Hence for recalibration the Instrument shipped to our authorized service station the address of which is given below.

The Instrument is to wired as shown in external wiring diagram given else where manual.

### **EXTERNAL WIRING DIAGRAMS FOR CURRENT TRANSDUCER SINGLE O/P**



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