



## LOOP POWERED PROCESS INDICATOR

UNIVERSAL INDICATOR

MODEL A2120



**A2120**  
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### DESCRIPTION

The A2120 is a loop powered Universal Process Indicator. The unit is inserted in series with the 4 - 20 mA current loop to indicate the process value directly in engineering units.

The unit being loop powered needs no external power supply or batteries. It draws power from the loop current itself and uses a proprietary technique incorporated into a module to convert the loop current into a signal proportional to the loop current as well as step up the small voltage drop across the loop to a higher value sufficient to operate the indicator.

The process value is indicated on a 12.5 mm high LCD. The coarse zero and span units are jumper settable and fine adjustment is done by trimpots. The Zero & Span adjustments on the front panel enable easy field calibration with zero elevation & suppression.

The Indicator is housed in a compact 72 x 72 mm DIN standard enclosure. This enables multiple indicators to be mounted compactly on the same panel. A choice of other enclosures is also available including weather and explosion (flame ) proof as per IS:2147 & IS:2148 standards.

### SALIENT FEATURES

- LOOP CURRENT OPERATED
- 3 ½ DIGIT LCD INDICATION
- LINEAR OUTPUT INDICATION
- LOW LINE VOLTAGE DROP
- SUPPLY REVERSAL PROTECTION
- ZERO ELEVATION & SUPPRESSION
- FIELD PROGRAMMABLE.
- WIDE RANGE SPAN SETTING
- ZERO & SPAN ON FACIA
- COMPACT MOUNTING
- VARIOUS PROTECTION ENCLOSURES
- INTRINSICALLY SAFE

### APPLICATIONS

The A2120 loop powered Universal Process Indicator finds applications as a process value indicator in various industrial control and measurement applications.

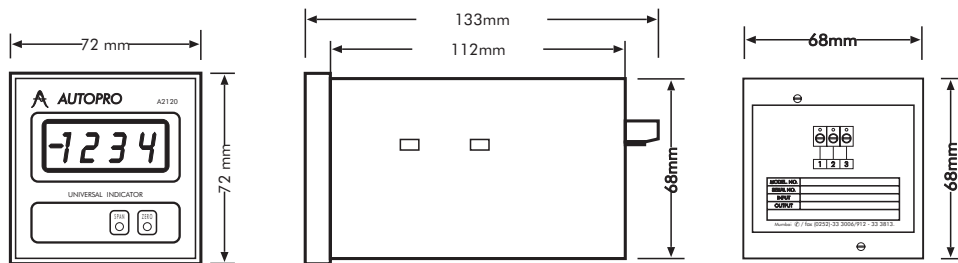
This loop powered unit can be inserted at any point in the signal loop as a process value indicator especially where there is no convenient source of auxiliary power.

The low voltage drop ensures that this unit can be used even when the available line drop is small. The unit, being a non energy ( voltage ) producing device, can also be used in hazardous locations with suitable enclosures, since it is intrinsically safe.

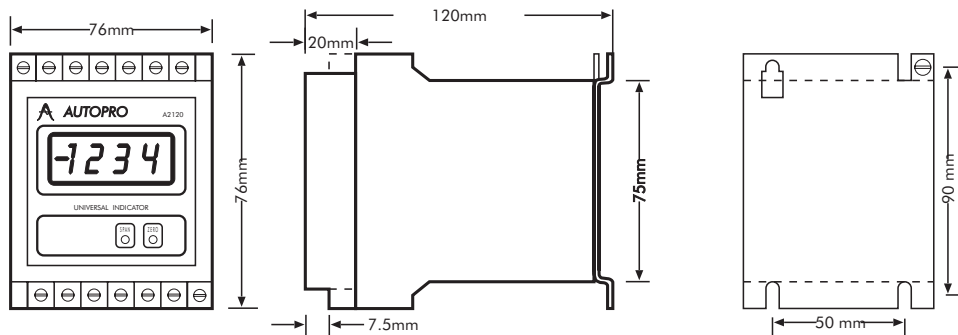
This unit can also be used as an indicator in applications which could not be implemented till now, due to lack of a suitable power source at the point of indication e.g. remote indication of liquid level at locations like tank tops when used in liquid level sensing and control, pH and conductivity monitoring at the discharge end of the effluent treatment plants, motorised control valve position indication at the point of actuation, rpm indication of motors, power output of PID controllers etc.

# DIMENSIONAL DETAILS :

Enclosure T72  
Panel mounting  
Cutout : 68 X 68 mm



Enclosure WM1  
Wall mounting  
Size : 50H X 90V mm



## SPECIFICATIONS :

### Signal input range \*

4 - 20 mA standard

### Operating range

3.2 - 28 mA

### Input impedance

Less than 100

### Line voltage drop

Less than 2.2 Volts

### Indication

3 ½ digit 0.5" LCD

### Coarse zero

± 1800 units in 4 ranges

### Fine zero adjustment

± 10 % by ten turn trimmer

### Coarse span

± 2000 units in 4 ranges

### Fine span adjustment

± 10 % by ten turn trimmer

### Accuracy

± 0.2 % of span

### Ambient temp.

10° - 50°C operating range

### Terminals

Compression type accepts 1.5mm<sup>2</sup> wire = 24swg

### Enclosure\*

T72 : 72 (H) x 72 (W) x 110 (D) mm

\* for other options check ordering information or consult factory.

## ORDERING INFORMATION

MODEL A2120 \ II - EEE

### II : Input

0 : 4 - 20 mA

1 : 10 - 50 mA

U1 : User specified

### EEE : Enclosure

T 72 : 72 x 72 x 110 mm

WM1 : 76 x 100 x 120 mm

FP 1 : 160 x 160 x 110 mm

Our other products :

- ★ Two Wire Transmitters
- ★ Four Wire Transmitters
- ★ PID Process Controllers

# AUTOPRO

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