ADTECH
Analog-Digital Technology, Inc.

# 300L Series LOW POWER <br> Three-Wire Field Selectable Wide Ranging Transmitters Guide 



## Features

- Types of Inputs: AC I/V (TRMS or average); frequency, millivolts, potentiometer, RTD, DC I/V, T/C.
- No Interaction: Zero and span controls
- Elevation/Suppression: Up to 100\% of range
- Power Range: 7 to 42 VDC, 3.5 mA typical
- RFI-Resistant
- Temperature Coefficients:

Zero $= \pm 0.007 \% /{ }^{\circ} \mathrm{C}$ of span-typical
Span $= \pm 0.008 \% /{ }^{\circ} \mathrm{C}$ of span-typical

- Repeatability: $\pm 0.002 \%$ typical
- Bandwidth: (-3 db): 3.2 Hz typical
- Isolation: 1000 VDC or 600 VAC
- Power Supply Effect: $\pm 0.005 \%$ of span
- Response Time: 110 milliseconds typical
- Reverse Polarity Protection


## Typical Applications

Measurement of:

- Temperature
- Flow
- Speed
- Position
- Displacement
- Rotation
- AC Current
- AC Voltage
- DC Signals


# AC Input <br> ACT 340L (Isolated) 

## Input/Output

## Input Signals

AC Current: Any 0-1 to 0-5 amps AC, burden less than 0.5 VA (Selectable average or true RMS responding)
AC Voltage: Any 0-0.25 to 0-250 VAC, burden less than 0.5 VA (Selectable average or true RMS responding) (4 major ranges $0.25,2.5,25,250$ )
Zero Adjustment: $\pm 5 \%$ nominal of span
Course Span Adjustment: 100\% of a major range (voltage only)
Fine Span Adjustment: $\pm 5 \%$ nominal of major range ( $\pm 1 \mathrm{Amp}$ for current input)
Input Frequency Range: $25-1,000 \mathrm{~Hz}$ Input Overload Capability: 200\% continuous

Output Signals: 1-5 VDC or 0-5 vdc Output Drive Capability: 10K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.25 \%$
Independent Linearity: $\pm 0.15 \%$ maximum, $\pm 0.06 \%$ typical
Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC: $\pm 0.01 \%$ of span max $/{ }^{\circ} \mathrm{C}$
Span TC: $\pm 0.02 \%$ of span max $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 350 milliseconds ( 10 to $90 \%$
step response) average responding
Bandwidth: (-3 db): 1 Hz

## Temperature Range:

$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max. Isolation:Input/output/case: 1000 VDC or 600 VAC Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical; 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: One 16-position rotary switch for course span; two multiturn potentiometers for fine zero and span control, jumpers for measurement response type TRMS or average and for input ranges and output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

## Frequency Input <br> FDT 350L (Isolated)

## Input/Output

## Input Signals

Voltage (Amplitude): $10 \mathrm{mV}-100 \mathrm{Vrms}$ (0-5
kHz ); 50 mV to $50 \mathrm{Vrms}(5 \mathrm{kHz}$ to 30 kHz )
Contact: Dry, $2 \mathrm{~mA} @ 24$ VAC rating
Frequency Range: $0-30 \mathrm{~Hz}$ to $0-30 \mathrm{kHz}$ full scale
Major Range Switch: Provides 11 discrete ranges with the zero control adjustable $10 \%$ of output and span control adjustable from $50 \%$ to $100 \%$ of the major range selected

Output Signals: 1-5 VDC or 0-5 VDC
Output Drive Capability: 10K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$
Independent Linearity: $\pm 0.02 \%$ max.;

$$
\pm 0.01 \% \text { typical }
$$

Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC: $\pm 0.01 \%$ of span max $/{ }^{\circ} \mathrm{C}$
Span TC: $\pm 0.01 \%$ of span max $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 350 milliseconds (10 to 90\% step response)
Bandwidth: (-3 db): 1 Hz
Temperature Range:
$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max.
Isolation: Input/output/case: 1000 VDC or
600 VAC
Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical; 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: One 16 position rotary switch for major range; four multiturn potentiometers for zero, span, hysteresis and sensitivity and jumpers for output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

H 15 D, H 25 - H $30 \quad$ Mounting

## MV Input

MVT 306L (Non-Isolated)

## Input/Output

## Input Signals

$\mathbf{0 . 5} \mathbf{~ m V}$ to $\mathbf{1 0 0 ~ m V ~ s p a n ~ ( ~} Z$ in greater than 10
megohms)
Zero Suppression: Up to $100 \%$ of the major
range selected in 16 divisions of the coarse zero adjustment switch
Span: From 0.5 mV to 100 mV full scale switch selectable. The coarse span switch adds 16 divisions to each major range.

Output Signals: 1-5 VDC or 0-5 VDC
Output Drive Capability: 10 K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$
Independent Linearity: $\pm 0.01 \%$ maximum,
$\pm 0.006 \%$ typical (14-bit digital linearity)
Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC: $\underset{ \pm\left(\frac{0.025}{\text { input span }(\mathrm{mV})}+0.005\right)}{\% \text { of span max. } /{ }^{\circ} \mathrm{C}}$
Span TC: $\pm 0.008 \%$ of span max $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 110 milliseconds (10 to $90 \%$ step response)
Bandwidth: (-3 db): 3.2 Hz

## Temperature Range:

$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max.
Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical; 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: Two 16 position rotary switches for coarse zero and span control; two multiturn potentiometers for fine zero, span control and jumpers for major range; zero elevation and output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

H 15 D, H 25 - H $30 \quad$ Mounting

## MV Input MVT 326L (Isolated)

## Input/Output

## Input Signals

$\mathbf{0 . 5} \mathbf{~ m V}$ to $\mathbf{1 0 0} \mathbf{~ m V}$ span ( $Z$ in greater than 10 megohms)
Zero Suppression: Up to $100 \%$ of the major range selected in 16 divisions of the coarse zero adjustment switch
Span: From 0.5 mV to 100 mV full scale switch selectable. The coarse span switch adds 16 divisions to each major range.

Output Signals: 1-5 VDC or 0-5 VDC Output Drive Capability: 10K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$ Independent Linearity: $\pm 0.01 \%$ maximum, $\pm 0.006 \%$ typical (14-bit digital linearity) Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ. Zero TC: $\left.\underset{ \pm\left(\frac{0.025}{\text { input span }(\mathrm{mV})}+0.005\right.}{\% \text { of span max. } /{ }^{\circ} \mathrm{C}}\right)$
Span TC: $\pm 0.008 \%$ of span $\max /{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple 10 mV P/P maximum
Response Time: 110 milliseconds (10 to 90\% step response)
Bandwidth: ( -3 db ): 3.2 Hz
Temperature Range:
$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max.
Isolation: Input/output/case: 1000 VDC, or 600 VAC
Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical, 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: Two 16 position rotary switches for coarse zero and span control; two multiturn potentiometers for fine zero and span control and jumpers for major range; zero elevation and output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

H 15 D, H 25 - H 30 Mounting

## Potentiometer Input <br> PTT 373L (Non-Isolated)

## Input/Output

## Input Signals

Potentiometers/Slidewire Sensors: 3 Wire
50 ohm to 100 k ohm Resistance Spans Standard
Zero Suppression: Up to $100 \%$ of the potentiometer rotation selected in 16 divisions of the coarse zero adjustment switch. Span: From 0-100\% full scale switch selectable. The coarse span switch adds 16 range divisions.

Output Signals: 1-5 VDC or 0-5 VDC
Output Drive Capability: 10 K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$
Independent Linearity: $\pm 0.01 \%$ maximum,
$\pm 0.006 \%$ typical (14-bit digital linearity)
Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC: $\pm 0.007 \%$ of $\operatorname{span} \max /{ }^{\circ} \mathrm{C}$
Span TC: $\pm 0.010 \%$ of span max $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 110 milliseconds ( 10 to $90 \%$ step response)
Bandwidth: (-3 db): 3.2 Hz
Temperature Range:
$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max.
Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical, 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: Two 16 position rotary switches for coarse zero and span control; two multiturn potentiometers for fine zero and span control and jumpers for output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

H 15 D, H 25 -H 30 Mounting

## RTD Input

## RBT 374L (Non-Isolated)

## Input/Output

## Input Signals

Resistance Bulb Sensor: 2,3, or 4 wire types
1 to 400 ohm Resistance Spans: Standard
Zero Suppression: Up to $100 \%$ of the major
range selected in 16 divisions of the coarse zero adjustment switch.
Span: From 0-100\% full scale switch selectable. The coarse span switch adds 16 divisions to each major range.
Lead Compensation: $1 \%$ maximum error, of differential lead resistance.

Output Signals: 1-5 VDC or 0-5 VDC
Output Drive Capability: 10 K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$
Independent Linearity: $\pm 0.025 \%$ max., $\pm 0.01 \%$ typical
Conformance to RTD Curves: $0.15 \%$ max.
Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC: ${ }_{ \pm}\left(\frac{0.05}{\text { input span (ohms) }}+0.005\right)$
$\%$ of span $/{ }^{\circ} \mathrm{C}$ max.
Span TC: $\pm 0.008 \%$ of span max. $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 110 milliseconds ( 10 to
90\% step response)
Bandwidth: (-3 db): 3.2 Hz
Temperature Range:
$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $85^{\circ} \mathrm{C}$ ) operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max.
Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical, 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: Two 16 position rotary switches for coarse zero and span control; two multiturn potentiometers for fine zero and span control and jumpers for RTD type, major range, input zero elevation and output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

H 15 D, H 25 - H $30 \quad$ Mounting

# RTD Input <br> RBT 372L (Isolated) 

## Input/Output

## Input Signals

Resistance Bulb Sensor: 2,3, or 4 wire types 1 to $\mathbf{4 0 0}$ ohm Resistance Spans: Standard Zero Suppression: Up to $100 \%$ of the major range selected in 16 divisions of the coarse zero adjustment switch.
Span: From 0-100\% full scale switch selectable. The coarse span switch adds 16 divisions to each major range.
Lead Compensation: $1 \%$ maximum error, of differential lead resistance.

Output Signals: 1-5 VDC or 0-5 VDC
Output Drive Capability: 10 K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$
Independent Linearity: $\pm 0.025 \%$ max., $\pm 0.01 \%$ typical
Conformance to RTD Curves: $0.15 \%$ max.
Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC: $\pm\left(\frac{0.05}{\substack{\text { input span (ohms) } \\ \% \text { of span } /{ }^{\circ} \mathrm{C} \text { max. }}}+0.005\right)$
Span TC: $\pm 0.008 \%$ of span max. $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 110 milliseconds (10 to $90 \%$ step response)
Bandwidth: (-3 db): 3.2 Hz
Temperature Range:
$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $93^{\circ} \mathrm{C}$ ) storage
Power Supply Effect: $\pm 0.005 \%$ of span, max. Isolation: Input/output/case: 1000VDC, or 600 VAC Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical, 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: Two 16 position rotary switches for coarse zero and span control; two multiturn potentiometers for fine zero and span control and jumpers for RTD type, major range, input zero elevation and output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams); Shipping: Nominal 7 oz. (200 grams)

## Options

H 15 D, H 25 - H $30 \quad$ Mounting

# I/V/MV Input <br> SCT 302L (Isolated) 

## Input/Output

## Input Signals

4-20 mA DC (z in 10 ohms)
$\mathbf{0 - 2 0}$ or $\pm \mathbf{2 0} \mathbf{~ m A ~ D C ~ ( z ~ i n ~} 10$ ohms)
$\mathbf{0} \mathbf{- 1 0}$ or $\pm \mathbf{1 0} \mathbf{~ m A ~ D C ~ ( z ~ i n ~} 20$ ohms)
$\mathbf{0} \mathbf{- 1}$ or $\pm \mathbf{1} \mathbf{~ m A ~ D C ~ ( z ~ i n ~} 200$ ohms)
1-5 VDC (z in 1 megohm)
$\mathbf{0 - 5}$ or $\pm \mathbf{5 V D C}$ ( $z$ in 1 megohm)
$\mathbf{0}-\mathbf{1 0}$ or $\mathbf{\pm 1 0}$ VDC ( $z$ in 1 megohm)
Any unipolar or bipolar voltage from
100 MV to 200 VDC. (Option I 14)
Zero Suppression: $\pm 10 \%$
Span Adjustment: $\pm 10 \%$

Output Signals: 1-5 VDC or 0-5 VDC
Output Drive Capability: 10 K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$
Independent Linearity: $\pm 0.025 \%$ max., $\pm 0.01 \%$ typical
Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC: $\pm 0.007 \%$ of span max. $/{ }^{\circ} \mathrm{C}$
Span TC: $\pm 0.008 \%$ of span max. $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 110 milliseconds (10 to $90 \%$ step response)
Bandwidth: ( -3 db ): 3.2 Hz
Temperature Range:
$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max.
Isolation: Input/output/case: 1000 VDC or 600 VAC
Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical, 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: 8 jumpers for ranges; two multiturn potentiometers for fine zero, span
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

| I 14 | Voltage/current inputs |
| :--- | :--- |
| H 15 D, H 25-H 30 | Mounting |

## T/C Input <br> TCT 326L (Isolated)

## Input/Output

## Input Signals

*Thermocouple: All standard ISA calibration
(B, E, J, K, R, S, T), -20 mV to 100 mV spans ( $Z$ in greater than 1 megohm)
Zero Suppression: Up to 100\% of the major range selected in 16 divisions of the coarse zero adjustment switch.
Span: From 0.5 mV to 100 mV full scale switch selectable. The coarse span switch adds 16 divisions to each major range.
Upscale/Downscale Burnout Protection:
Standard, field selectable
Burnout Current: 0.1 micro amperes--nominal
*Consult factory for other T/C types.
Output Signals: 1-5 VDC or 0-5 VDC
Output Drive Capability: 10 K ohms min.

## Performance

Calibrated Accuracy: $\pm 0.1 \%$ (of mv input)
Independent Linearity: $\pm 0.01 \%$ max., $\pm 0.006 \%$
typical (14-bit digital linearity) (of millivolt input)
Repeatability: $\pm 0.005 \%$ max., $\pm 0.002 \%$ typ.
Zero TC ${ }_{ \pm}\left(\frac{0.025}{\text { input span }(\mathrm{MV})}+0.007\right)$
$\%$ of span $/{ }^{\circ} \mathrm{C}$ max.
Span TC: $\pm 0.008 \%$ of span max. $/{ }^{\circ} \mathrm{C}$
Load Effect: $\pm 0.005 \%$ zero to full load
Output Ripple: 10 mV P/P maximum
Response Time: 110 milliseconds ( 10 to
$90 \%$ step response)
Bandwidth: (-3 db): 3.2 Hz
Temperature Range:
$-25^{\circ}$ to $185^{\circ} \mathrm{F}\left(-31^{\circ}\right.$ to $\left.85^{\circ} \mathrm{C}\right)$ operating;
$-40^{\circ}$ to $200^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.93^{\circ} \mathrm{C}\right)$ storage
Power Supply Effect: $\pm 0.005 \%$ of span, max.
Isolation: Input/output/case, 1000 VDC, or 600 VAC
Cold Junction Compensation Error: $1.5^{\circ} \mathrm{C}$ max
(0 to $50^{\circ} \mathrm{C}$ )
Note: All accuracies are given as a \% of span.

## Power

7 to 42 VDC: 3.5 mA typical, 5 mA maximum

## Mechanical

Electrical Classification: General purpose
Connection: Screw, compression type, accepts up to 14 AWG
Controls: Two 16 position rotary switches for coarse zero and span control; two multiturn potentiometers for fine zero and span control and jumpers for T/C type major range; input zero elevation and output selection
Mounting: DIN rails, Surface, snap-track, or NEMA 4 or 7
Weight: Net Unit: 4 oz. (115 grams);
Shipping: Nominal 7 oz. (200 grams)

## Options

H 15 D, H 25 - H $30 \quad$ Mounting

The ADTECH 300L Low Power Series Three-Wire Transmitters provide mounting efficiency and ease of wiring in a compact DIN package. Their small size makes them ideal for RTU mounting.

Remote monitoring of oil/gas pipelines, water/ waste-water facilities, utility substation, laboratory and vehicle testing are a few typical applications.

The units convert most sensor inputs to 1-5 VDC or 0-5 VDC output for interface directly with PLC's, DCS's and process computers.

Most units provide independent linearity equivalent to 14-bit digital accuracy and include user friendly features such as wide ranging and noninteractive zero and span controls.

The compact DIN mounting style allows high density mounting in new or existing field mounted or control panel enclosures.

These units are designed for industrial environments. The housing is made of rugged Krilen for protection against corrosion, moisture and dust. Screw compression terminals are provided for positive field connections.

Reverse polarity protection is supplied as standard.
The power range of 7 to $42 \mathrm{VDC} ; 3.5 \mathrm{~mA}$ typical provides low power consumption.

The input/output can be factory set to order as specified (no charge) or reconfigured in the field by simply adjusting switches, multi-turn potentiometers, and plug-in jumpers.

AC to DC or DC to DC instrument power supplies are available. The IPS 2402 AC/DC powers up to 16 units. The IPS 2416 AC/DC or DC/DC powers up to 100 units. DIN, surface, snap track or NEMA mountings are available.

Standard mounting is DIN Rail. Surface or snap track mounting is provided at no charge. NEMA 4 or 7 are optionally available.

## Connections



## Typical Connection



## Outline \& Mounting



Snap Track Option H 25


NEMA 4 Option H 27



NEMA 7 Option H15D


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