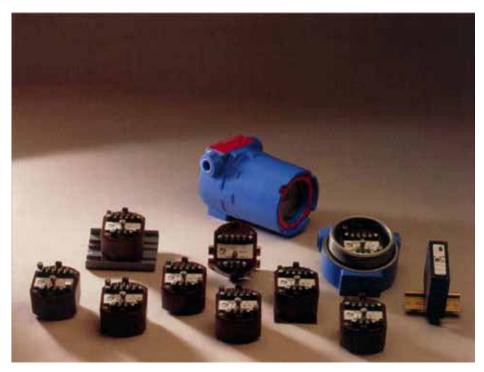


## ADTECH

95 Mt. Read Blvd # 149 Rochester, New York 14611 USA Phone: 1.585.698.1845 Fax: 1.585.697.0445

# FIELD SELECTABLE WIDE RANGING TRANSMITTERS GUIDE

100 SERIES TWO-WIRE



#### **FEATURES**

- TYPES OF INPUTS: AC CURRENT & VOLTAGE, FREQUENCY, MILLIVOLTS, POTENTIOMETER, RTD, THERMOCOUPLE
- NO INTERACTION: ZERO AND SPAN CONTROLS
- ELEVATION/SUPPRESSION: UP TO 100% OF RANGE
- POWER RANGE: 8 TO 42 VDC
- , RFI-IMMUNE
- , Temperature Coefficients: Zero =  $\pm 0.007\%$  / C of span- typical Span =  $\pm 0.008\%$  / C of span- typical
- REPEATABILITY: ±0.002% TYPICAL
- BANDWIDTH: (-3 DB) : 3.2 HZ TYPICAL
- , ISOLATION: 600 VDC OR 350 VAC
- POWER SUPPLY EFFECT: ±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 MILLIVOLTS

AC INPUT ACX 140 (Isolated)	AC INPUT ACX 141 (ISOLATED)	FREQUENCY INPUT D) FDX 150 (ISOLATED)				
INPUT/OUTPUT	Input/Output	INPUT/OUTPUT				
INPUT SIGNALS  AC CURRENT: ANY 0-0.8 TO 0-5 AMPS AC, BURDEN LESS THAN 0.5 VA (7 MAJOR RANGES)  AC VOLTAGE: ANY 0-0.67 TO 0-255 VAC RMS SIGNAL, BURDEN LESS THAN 0.5 VA (21 MAJOR RANGES)  ZERO ADJUSTMENT: ±10% SPAN ADJUSTMENT: ±25% INPUT FREQUENCY RANGE: 25-1.000 HZ INPUT OVERLOAD CAPABILITY:  AC CURRENT: 15 AMPS CONTINUOUS; 200 AMPS FOR 1 SECOND  AC VOLTAGE: 200% OF INPUT SPECIFIED, CONTINUOUS; SUPPRESSION TO 20% OF RANGE  OUTPUT SIGNAL: 4-20 MA DC OUTPUT LOOP DRIVE CAPABILITY  R (OHM) = (V SUPPLY - V MINIMUM) 1.000 I OUT MAX. MA  V MINIMUM = 8.0 VDC	INPUT SIGNALS  AC CURRENT: ANY 0-0.8 TO 0-5 AMPS AC, BURDEN LESS THAN 0.5 VA ( 2 MAJOR RANGES)  AC VOLTAGE: ANY 0-0.67 TO 0-255 VAC RMS SIGNAL, BURDEN LESS THAN 0.5 VA ( 4 MAJOR RANGES) 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. INPUT FREQUENCY RANGE: 25-1,000 HZ INPUT OVERLOAD CAPABILITY: AC CURRENT: 15 AMPS CONT; 200 AMPS, 1 SEC. AC VOLTAGE: 200% OF INPUT SPECIFIED, CONT. OUTPUT SIGNAL: 4-20 MA DC OUTPUT LOOP DRIVE CAPABILITY  R (OHM) = (V SUPPLY - V MINIMUM) 1,000 I OUT MAX. MA V MINIMUM = 8.0 VDC	INPUT SIGNALS VOLTAGE (AMPLITUDE): 10 MV-100 VRMS (0-5 KHZ); 50 MV TO 50 VRMS (5 KHZ TO 30 KHZ) CONTACT: DRY, 2 MA @ 24 VAC RATING FREQUENCY RANGE: 0-30 HZ TO 0-30 KHZ FULL SCALE MAJOR RANGE SWITCH: PROVIDES 11 DISCRETE RANGES WITH THE ZERO CONTROL ADJUSTABLE 10% OF OUTPU AND SPAN CONTROL ADJUSTABLE FROM 50% TO 100% OF THE MAJOR RANGE SELECTED  OUTPUT SIGNAL: 4-20 MA DC OUTPUT LOOP DRIVE CAPABILITY R (OHM) = (V SUPPLY - V MINIMUM) 1.000 I OUT MAX. MA				
		V MINIMUM = 8.0 VDC				
1 out   4-20 mA     V supply   12   24   36   42	I out   4-20 mA	I out   4-20 mA				
R(ohms) 200 800 1400 1700	R(ohms) 200 800 1400 1700	R(ohms) 200 800 1400 1700				
Performance	Performance	Performance				
* Calibrated Accuracy: ±0.25% *Independent Linearity: ±0.10% maximum, ±0.04% typical *10-100% of span Repeatability: ±0.005% max., ±0.002% typ. Zero TC: ±0.01% of span max /°C Span TC: Current: +0.02% ±0.015% of span max /°C Voltage: -0.015%, ±0.01% of span max /°C Load Effect: ±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° to 185°F (-31° to 85°C) operating; -40° to 200°F (-40° to 93°C) storage Power Supply Effect: ±0.005% over operating Range Isolation: Input/output/case: 750VAC, 1,000 VDC Note: All accuracies are given as a % of span.	*CALIBRATED ACCURACY: ±0.25% *INDEPENDENT LINEARITY: ±0.10% MAXIMUM, ±0.04% TYPICAL *10-100% OF SPAN REPEATABILITY: ±0.005% MAX., ±0.002% TYP. ZERO TC: ±0.01% OF SPAN MAX /°C SPAN TC: CURRENT: +0.02% ±0.015% OF SPAN MAX /°C VOLTAGE: -0.015%, ±0.01% OF SPAN MAX /°C LOAD EFFECT: ±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° TO 185°F (-31° TO 85°C) OPERATING; -40° TO 200°F (-40° TO 93°C) STORAGE POWER SUPPLY EFFECT: ±0.005% OVER OPERATING RANGE ISOLATION: INPUT/OUTPUT/CASE: 750VAC, 1,000 VDC NOTE: ALL ACCURACIES ARE GIVEN AS A % OF SPAN.	*Calibrated Accuracy: ±0.1% *Independent Linearity: ±0.02% maximum, ±0.01% typical  Repeatability: ±0.005% max ±0.002% typ.  Zero TC: ±0.01% of span max/°C  Span TC: ±0.01% of span max/°C  Load Effect: ±0.005% zero to full load  Output Ripple: 10 mV P/P maximum  Response Time: 550 milliseconds ( 10 to 90% step response)  Bandwidth: (-3 db): 0.6 Hz  Temperature Range: -25° to 185°f (-31° to 85°C) operating; -40° to 200°f (-40° to 93°C) storage  Power Supply Effect: ±0.005% over operating  Range  Isolation: Input/output/case: 600 VDC or 350 VAC with RFI  Note: All accuracies are given as a % of span.				
POWER	POWER	POWER				
8 TO 42 VDC: STANDARD	8 TO 42 VDC: STANDARD	8 TO 42 VDC: STANDARD				
MECHANICAL	MECHANICAL	MECHANICAL				
ELECTRICAL CLASSIFICATION: GENERAL PURPOSE, CSA CONNECTION: BARRIER TERMINAL STRIPS (0.325" SPACING, NO. 6 SCREWS) CONTROLS: ONE 8-POSITION DIP SWITCH FOR MAJOR RANGE; TWO MULTITURN POTENTIOMETERS FOR FINE ZERO AND SPAN CONTROL. MOUNTING: SURFACE, SNAP-TRACK, DIN, OR NEMA 4, 7, & 12 WEIGHT: NET UNIT: 8 OZ. (228 GRAMS); SHIPPING: NOMINAL 1 POUND (455 GRAMS)	ELECTRICAL CLASSIFICATION: GENERAL PURPOSE, CSA CONNECTION: BARRIER TERMINAL STRIPS (0.325" SPACING, NO. 6 SCREWS) CONTROLS: ONE 8-POSITION DIP SWITCH FOR MAJOR RANGE; TWO 16-POSITION ROTARY SWITCHES FOR COARSE ZERO AND SPAN CONTROL; TWO MULTITURN POTENTIOMETERS FOR FINE ZERO AND SPAN CONTROL MOUNTING: SURFACE, SNAP-TRACK, DIN, OR NEMA 4, 7, & 12 WEIGHT: NET UNIT: 8 OZ. (228 GRAMS); SHIPPING: NOMINAL 1 POUND (455 GRAMS)	ELECTRICAL CLASSIFICATION: GENERAL PURPOSE, CSA CONNECTION: BARRIER TERMINAL STRIPS (0.325" SPACING, NO. 6 SCREWS) CONTROLS: ONE 16-POSITION ROTARY SWITCH FOR RANGE CONTROL; FOUR MULTITURN POTENTIOM-ETERS FOR ZERO, SPAN, SENSITIVITY, AND HYSTERESIS CONTROL MOUNTING: SURFACE, SNAP-TRACK, DIN, OR NEMA 4, 7, & 12 WEIGHT: NET UNIT: 8 OZ. (228 GRAMS); SHIPPING: NOMINAL 1 POUND (455 GRAMS)				
OPTIONS	Options	Options				
	H 13 THROUGH H 23 MOUNTING	H 13 THROUGH H 23 MOUNTING LPI LOOP POWERED INDICATOR				

MV INPUT MVX 106 (NON-ISOLATED)	MV IN MVX 126 (I	POTENTIOMETER INPUT PTX 173 (NON-ISOLATED)					
INPUT/OUTPUT	Input/Outpu	Input/Output					
INPUT SIGNALS 0.5 MV TO 100 MV 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. UPSCALE/DOWNSCALE PROTECTION: OPTIONAL	INPUT SIGNALS 0.5 MV TO 100 MV SPAN (Z IN MEGOHMS) ZERO SUPPRESSION: UP TO 10 SELECTED IN 16 DIVISIONS OF ADJUSTMENT SWITCH SPAN: FROM 0.5 MV TO 100 M SELECTABLE. THE COARSE SPAN SIONS TO EACH MAJOR RANGI UPSCALE/DOWNSCALE PROTE	INPUT SIGNALS POTENTIOMETERS/SLIDEWIRE SENSORS: 3 WIRE 50 OHM TO 100 K OHM RESISTANCE SPANS: STANDARD ZERO SUPPRESSION: UP TO 100% OF THE POTENTIOM- ETER ROTATION SELECTED IN 16 DIVISIONS OF THE COARSE ZERO ADJUSTMENT SWITCH. SPAN: FROM 0-100% FUIL SCALE SWITCH SELECTABLE. THE COARSE SPAN SWITCH ADDS 16 RANGE DIVISIONS.  OUTPUT SIGNAL: 4-20 MA DC OUTPUT LOOP DRIVE CAPABILITY R (OHM) = (V SUPPLY - V MINIMUM) 1,000 I OUT MAX. MA V MINIMUM = 8.0 VDC				ENTIOM- COARSE CTABLE.	
OUTPUT SIGNAL: 4-20 MA DC OUTPUT LOOP DRIVE CAPABILITY  R (OHM) = (V SUPPLY - V MINIMUM) 1,000 I OUT MAX. MA  V MINIMUM = 8.0 VDC	OUTPUT LOOP DRIVE CAPABII  R (OHM) = (V SUPPLY - V MINI I OUT MAX.  V MINIMUM = 8.						
I out 4-20 mA		-20 mA	I out 4-20 mA				
V supply 12 24 36 42 R(ohms) 200 800 1400 1700		24 36 42 00 1400 1700	V supply R(ohms)	200	24 800	36 1400	1700
Performance	Performance		Performance				
* CALIBRATED ACCURACY: 0.1% INDEPENDENT LINEARITY: ±0.01% MAXIMUM, ±0.006% TYPICAL (14-BIT DIGITAL LINEARITY) REPEATABILITY: ±0.005% MAX., ±0.002% TYP. ZERO TC: ± 0.025	* Calibrated Accuracy: 0.19 Independent Linearity: ±0.4 ±0.006% typical (14-bit digi' Repeatability: ±0.005% max., Zero TC: ± 0.025 Input span (mv) % of span max./° Span TC:±0.008% of span ma Load Effect:±0.005% zero TC 00UTPUT RIPPLE: 10 MV P/P M RESPONSE TIME: 110 MILLISEC 90% STEP R BANDWIDTH: (-3 DB): 3.2 Hz Temperature Range: -25° to 185°F (-31° to 85°C) C -40° to 200°F (-40° to 93°C) S POWER SUPPLY EFFECT: ±0.005 RAN ISOLATION: INPUT/OUTPUT/C VAC NOTE: ALL ACCURACIES ARE G	* Calibrated Accuracy: ±0.1% *Independent Linearity: ±0.01% maximum., ±0.006% typical (14-bit digital linearity) Repeatability: ±0.005% max., ±0.002% typ. Zero TC: ±0.007% of span max/°C Span TC: ±0.010% of span max/°C Load Effect: ±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° to 185° f (-31° to 85°C) operating; -40° to 200° f (-40° to 93°C) storage Power Supply Effect: ±0.005% over operating Range  Note: All accuracies are given as a % of span.				0% TING	
POWER	POWER	POWER					
8 to 42 VDC: Standard	8 to 42 VDC: Standard	8 to 42 VDC: Standard					
MECHANICAL	MECHANICAL	MECHANICAL					
ELECTRICAL CLASSIFICATION: GENERAL PURPOSE, CSA CONNECTION: BARRIER TERMINAL STRIPS (0.325" SPACING, NO. 6 SCREWS) CONTROLS: ONE 8-POSITION DIP SWITCH FOR MAJOR RANGE; TWO 16-POSITION ROTARY SWITCHES FOR COARSE ZERO AND SPAN CONTROL: TWO MULTITURN POTENTIOMETERS FOR FINE ZERO AND SPAN CONTROL. MOUNTING: SURFACE, SNAP-TRACK, DIN, OR NEMA 4, 7, & 12 WEIGHT: NET UNIT: 8 OZ. (228 GRAMS); SHIPPING: NOMINAL 1 POUND (455 GRAMS)	ELECTRICAL CLASSIFICATION: CONNECTION: BARRIER TERM (0.325" SPACING CONTROLS: ONE 8-POSITION RO RANGE: TWO 16-POSITION RO COARSE ZERO AND SPAN CON POTENTIOMETERS FOR FINE Z MOUNTING: SURFACE, SNAP-T NEMA 4, 7, & 12 WEIGHT: NET UNIT: 8 OZ. (228 SHIPPING: NOMINAL 1 POUNI	inal strips 5, No. 6 screws) dip switch for major tary switches for frol; two multiturn ero and span control. rack, DIN, or	ELECTRICAL CLASSIFICATION: GENERAL PURPOSE, CSA CONNECTION: BARRIER TERMINAL STRIPS (0.325" SPACING, NO. 6 SCREWS) CONTROLS: TWO 16-POSITION ROTARY SWITCHES FOR COARSE ZERO AND SPAN CONTROL: TWO MULTITURN POTENTIOMETERS FOR FINE ZERO AND SPAN CONTROL MOUNTING: SURFACE, SNAP-TRACK, DIN, OR NEMA 4, 7, & 12 WEIGHT: NET UNIT: 8 OZ. (228 GRAMS): SHIPPING: NOMINAL 1 POUND (455 GRAMS)				
	ODTIONS		OPTIONS	,			
OPTIONS	OPTIONS			•			
OPTIONS  H 13 THROUGH H 23 LPI LOOP POWERED INDICATOR VOLTAGE/CURRENT INPUTS	H 13 THROUGH H 23 LPI	MOUNTING LOOP POWERED INDICATOR VOLTAGE/CURRENT INPUTS	H 13 THROUGH F LPI			nting Powerei Ator	D

#### RTD INPUT RTD INPUT T/C INPUT **RBX 174 (NON-ISOLATED)** RBX 172 (ISOLATED) TCX 126 (ISOLATED) INPUT/OUTPUT INPUT/OUTPUT INPUT/OUTPUT INPUT SIGNALS INPUT SIGNALS INPUT SIGNALS Resistance Bulb Sensor: 2, 3, or 4 wire types Resistance Bulb Sensor: 2, 3, or 4 wire types Thermocouple: All standard ISA CALIBRATION (B, E, J, K, R, S, T), -20 MV to 100 mV spans (Z in greater CONFORMANCE TO RTD CURVES: 0.15% MAX. Conformance to RTD Curves: 0.15% max. 1 to 400 ohm Resistance Spans: Standard 1 TO 400 OHM RESISTANCE SPANS: STANDARD THAN 1 MEGOHM) Zero Suppression: Up to 100% of the major range Zero Suppression: Up to 100% of the major range Zero Suppression: Up to 100% of the major range SELECTED IN 16 DIVISIONS OF THE COARSE ZERO ADselected in 16 divisions of the coarse zero adselected in 16 divisions of the coarse zero ad-IUSTMENT SWITCH IUSTMENT SWITCH IUSTMENT SWITCH SPAN: FROM 0-100% FULL SCALE SWITCH SELECTABLE. SPAN: FROM 0-100% FULL SCALE SWITCH SELECTABLE. Span: From 0.5 mV to 100 mV full scale switch SELECTABLE. THE COARSE SPAN SWITCH ADDS 16 DIVI-The coarse span switch adds 16 divisions to each The coarse span switch adds 16 divisions to each MAJOR RANGE MAJOR RANGE. SIONS TO EACH MAJOR RANGE. LEAD COMPENSATION: 1% MAXIMUM ERROR OF LEAD COMPENSATION: 1% MAXIMUM ERROR OF UPSCALE/DOWNSCALE BURNOUT PROTECTION: STAN-DIFFERENTIAL LEAD RESISTANCE DIFFERENTIAL LEAD RESISTANCE BURNOUT CURRENT: 0.1 MICRO AMPERES-NOMINAL OUTPUT SIGNAL: 4-20 MA DC Output Signal: 4-20 ma DC \*CONSULT FACTORY FOR OTHER T/C TYPES. OUTPUT LOOP DRIVE CAPABILITY OUTPUT LOOP DRIVE CAPABILITY OUTPUT SIGNAL: 4-20 MA DC R (OHM) = (V SUPPLY - V MINIMUM) 1,000R (OHM) = (V SUPPLY - V MINIMUM) 1,000OUTPUT LOOP DRIVE CAPABILITY R (OHM) = (V SUPPLY - V MINIMUM) 1,000I OUT MAX. MA I OUT MAX. MA I OUT MAX. MA V MINIMUM = 8.0 VDC V MINIMUM = 8.0 VDC V MINIMUM = 8.0 VDC I out 4-20 mA Lout 4-20 mA I out 4-20 mA V supply 12 24 36 42 V supply 12 24 36 42 V supply 12 24 36 42 R(ohms) 200 R(ohms) 200 800 1400 1700 800 1400 1700 R(ohms) 200 800 1400 1700 Performance Performance Performance \* CALIBRATED ACCURACY: ±0.1% \* CALIBRATED ACCURACY: ±0.1% \* CALIBRATED ACCURACY: ±0.1% \*Independent Linearity: ±0.025% maximum, \*Independent Linearity: ±0.025% maximum, \*Independent Linearity: ±0.01% maximum,, ±0.01% TYPICAL ±0.01% TYPICAL ±0.006% typical (14-bit digital linearity) Repeatability: ±0.005% max., ±0.002% typ. REPEATABILITY: ±0.005% MAX., ±0.002% TYP. REPEATABILITY: ±0.005% MAX., ±0.002% TYP. 0.025 INPUT SPAN (MV) + 0.005 ZERO TC: ± 0.05 + 0.005 ZERO TC: ± ZERO TC: ± 0.05 + 0.007 INPUT SPAN (OHMS) INPUT SPAN (OHMS) % of Span/°C max. Span TC: ±0.008% of Span max. / °C % of span/ °C max % of span/ °C max SPAN TC: ±0.008% OF SPAN MAX. / °C SPAN TC: ±0.008% OF SPAN MAX. / °C CONFORMANCE TO RTD CURVES: 0.15% MAX. CONFORMANCE TO RTD CURVES: 0.15% MAX. LOAD EFFECT: ±0.005% ZERO TO FULL LOAD LOAD EFFECT: ±0.005% ZERO TO FULL LOAD LOAD EFFECT: ±0.005% ZERO TO FULL LOAD Output Ripple: 10 mV P/P maximum Response Time: 110 milliseconds ( 10 to 90%Output Ripple: 10 mV P/P maximum Response Time: 110 milliseconds ( 10 to 90% Output Ripple: 10 mV P/P maximum Response Time: 110 milliseconds ( $10\ \text{to}\ 90\%$ STEP RESPONSE) Bandwidth: (-3 db): 3.2 Hz STEP RESPONSE) STEP RESPONSE) Bandwidth: (-3 db): 3.2 Hz Bandwidth: (-3 db): 3.2 Hz Temperature Range: -25° TO 185°F (-31° TO 85°C) OPERATING; -40° TO 200°F (-40° TO 93°C) STORAGE Temperature Range: -25° to 185°F (-31° to 85°C) operating; Temperature Range: -25° to 185°F (-31° to 85°C) operating; -40° TO 200°F (-40° TO 93°C) STORAGE -40° TO 200°F (-40° TO 93°C) STORAGE POWER SUPPLY EFFECT: ±0.005% OVER OPERATING POWER SUPPLY EFFECT: ±0.005% OVER OPERATING POWER SUPPLY EFFECT: ±0.005% OVER OPERATING Range ISOLATION: INPUT/OUTPUT/CASE: 600VDC. 350 VAC RANGE RANGE ISOLATION: INPUT/OUTPUT/CASE: 600VDC, 350 VAC COLD JUNCTION COMPENSATION ERROR: 1.5 °C MAX (0 NOTE: ALL ACCURACIES ARE GIVEN AS A % OF SPAN. NOTE: ALL ACCURACIES ARE GIVEN AS A % OF SPAN BURNOUT CURRENT: 0.1 MICRO AMPS- NOMINAL NOTE: ALL ACCURACIES ARE GIVEN AS A % OF SPAN. POWER POWER POWER 8 to 42 VDC: Standard 8 to 42 VDC: Standard 8 to 42 VDC: Standard OPTIONS **OPTIONS OPTIONS** H 13 THROUGH H 23 MOUNTING H 13 THROUGH H 23 H 13 THROUGH H 23 MOUNTING MOUNTING LOOP POWERED LOOP POWERED LOOP POWERED INDICATOR INDICATOR INDICATOR

#### **MECHANICAL**

ELECTRICAL CLASSIFICATION: GENERAL PURPOSE, CSA Connection: Barrier terminal strips (0.325" spacing, No. 6 screws) Electrical Classification: General Purpose, CSA

CONNECTION: BARRIER TERMINAL STRIPS

(0.325" SPACING, NO. 6 SCREWS)

Controls: One 8-position dip switch for major range; two 16-position rotary switches for coarse zero and span control; two multiturn potentiom-ETERS FOR FINE ZERO AND SPAN CONTROL.

MOUNTING: SURFACE, SNAP-TRACK, DIN, OR NEMA 4, 7, & 12 Weight: Net Unit: 8 oz. (228 grams); SHIPPING: NOMINAL 1 POUND (455 GRAMS)

THE ADTECH 100 SERIES TWO-WIRE TRANSMITTERS PROVIDE FIELD MOUNTED EFFICIENCY AND EASE OF WIRING IN A COMPACT PACKAGE. THE UNITS CONVERT SENSOR INPUTS TO THE INDUSTRY STANDARD 4-20 MA DC TWO-WIRE LOOP 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 NON-INTERACTIVE ZERO AND SPAN CONTROLS.

THE COMPACT MOUNTING STYLE ALLOWS HIGH DENSITY MOUNTING IN NEW OR EXISTING FIELD MOUNTED OR CONTROL PANEL ENCLOSURES.

THESE UNITS ARE DESIGNED FOR INDUSTRIAL (FIELD) ENVIRONMENTS. THE HOUSING IS MADE OF RUGGED DIE CAST ALUMINUM WITH AN EPOXY PAINT FINISH AND IS GASKETED/SEALED FOR PROTECTION AGAINST CORROSION, MOISTURE, AND DUST. BARRIER TERMINAL STRIPS ARE PROVIDED FOR POSITIVE FIELD CONNECTIONS.

**PTX 173** 

RFI PROTECTION, MEETING SAMA PMC 33.1C AND EMI INTERFERENCE, IS PROVIDED AS STANDARD.

MOUNTING OPTIONS FOR NEMA 4,7,12, SNAP TRACK, AND DIN ARE AVAILABLE.

REVERSE POLARITY PROTECTION AND CURRENT LIMITING ARE SUPPLIED AS STANDARD.

The power range of 8 to 42 VDC provides valuable added drive capability.

THE INPUT CAN BE FACTORY SET TO ORDER AS SPECIFIED (NO CHARGE) OR RECONFIGURED IN THE FIELD BY SIMPLY ADJUSTING SWITCHES AND MULTI-TURN POTENTIOMETERS.

Integral LCD field indicator (LPI 40) is optionally available.

TCX 126

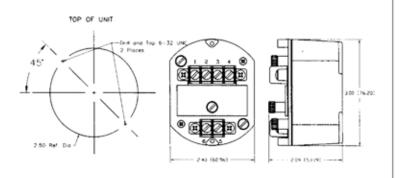
AC TO DC OR DC TO DC INSTRUMENT POWER SUPPLIES ARE AVAILABLE. THE IPS 2402 AC/DC POWERS UP TO 2 UNITS. THE IPS 2416 AC/DC OR DC/DC POWERS UP TO 16 UNITS. DIN, SURFACE, SNAP TACK OR NEMA MOUNTINGS ARE AVAILABLE.

#### **Connections** (3) SENSITIVIT HYSTERES @SPAN ERO @ ZERO@ @ SPAN ZERO@ HSUPPLY LOOP(+) HSUPPLY I-ISUPPLY HSUPPLY LOOP1+ ➂ ➂ (3) **ACX 140** ACX 141 **FDX 150** MVX 106 & MVX 126 3 (1) 3 (4) 3 (4) I-ISUPPLY LOOPH-I (6) ➅ (3) (6) (3)

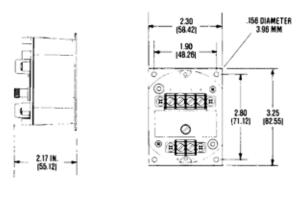
**RBX 172 & RBX 174** 

### **Outline & Mounting**

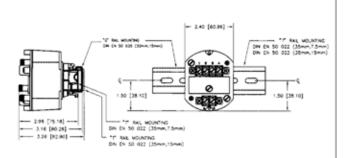
#### Surface (Standard)



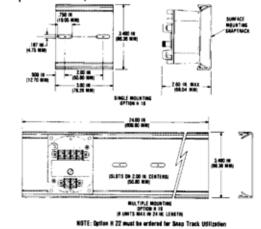
#### Surface Option H 22



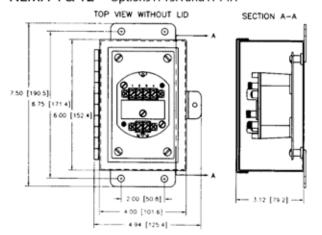
#### DIN Option H 20A



#### Snap Track Options H 18 and H 19



#### NEMA 4 & 12 Options H 13A and H 14A



#### NEMA 7 Option H15

