



OEM Pressure Transmitters Type C-10 - 100 INWC to 15,000 PSI

Tronic

(Previous model numbers 891.14.540, 891.24.540)

- Durable and cost effective for OEM applications
- 4-20 mA 2-wire output signal, voltage signals available
- Highly resistant to pressure spikes and vibration
- Stainless steel case and wetted parts
- Excellent vibration resistance
- Custom wiring and process connections available



WIKAI C-10 pressure transmitters and transducers are precision engineered to meet the price and performance requirements of Original Equipment Manufacturers. Each unit undergoes extensive quality control testing and calibration to achieve an accuracy \leq 0.50% full scale. The printed circuit boards use state-of-the-art surface mount technology and are potted in silicone gel for protection against mechanical shock, vibration, and moisture. Each unit is temperature compensated to assure accuracy and long term stability when exposed to severe ambient temperature variations.

The C-10 OEM pressure transmitter provides a rugged design featuring excellent vibration resistance and long service life. OEM applications include hydraulics, pneumatics, press control, compressor control, pump protection and numerous other processing and control operations.

STANDARD RANGES

RANGE	MAXIMUM*	BURST**	RANGE	MAXIMUM*	BURST**
0-100 INWC	30 PSI	30 PSI	0-300 PSI	1100 PSI	1100 PSI
0-5 PSI	30 PSI	30 PSI	0-400 PSI	1100 PSI	3600 PSI
0-10 PSI	60 PSI	60 PSI	0-500 PSI	1100 PSI	5800 PSI
0-15 PSI(A)	70 PSI	70 PSI	0-600 PSI	1100 PSI	5800 PSI
0-25 PSI(A)	145 PSI	145 PSI	0-1000 PSI	1750 PSI	8000 PSI
0-30 PSI	145 PSI	145 PSI	0-1500 PSI	2900 PSI	11,600 PSI
0-50 PSI(A)	250 PSI	250 PSI	0-2000 PSI	4600 PSI	14,500 PSI
0-60 PSI	250 PSI	250 PSI	0-3000 PSI	4600 PSI	14,500 PSI
0-100 PSI(A)	500 PSI	500 PSI	0-5000 PSI	11,600 PSI	25,000 PSI
0-150 PSI	500 PSI	500 PSI	0-7500 PSI	17,400 PSI	35,000 PSI
0-200 PSI	500 PSI	500 PSI	0-10,000 PSI	17,400 PSI	35,000 PSI
0-250 PSI(A)	1100 PSI	1100 PSI	0-15,000 PSI	21,750 PSI	43,500 PSI

Notes:

* Pressure applied up to the maximum rating will cause no permanent change in specifications

** Exceeding the burst pressure may result in destruction of the transmitter and loss of media.

(A) identifies standard ranges available with absolute pressure reference.

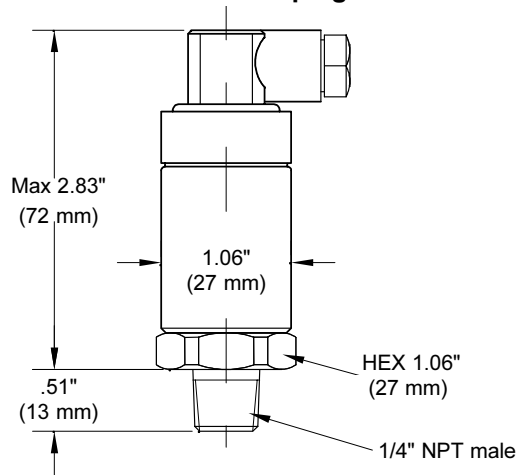
APE C-10
(APE 81.06)

Specifications	Units	Type C-10
Sensing principle Pressure ranges Pressure reference	PSI	piezoresistive up to 250 PSI, thin film > 300 PSI standard ranges as listed {custom ranges available} relative pressure {absolute reference to 250 PSIA}
Pressure connection Material: -wetted parts -case -internal transmitting liquid		1/4" NPT male; (G1/4B) {SAE #4 (7/16-20 UNF) male O-ring boss for ranges > 400 PSI} {other pressure connections available} 1.4571 and 1.4542 stainless steel (316 ss and PH17-4 ss) {for other materials see WIKA chemical seals} 1.4301 stainless steel (304 ss) silicone oil for piezoresistive sensors to 300 PSI, {halocarbon oil for oxygen service}, no liquid fill used for thin film sensors > 300 PSI
Supply voltage U_B Output and load limitations: Output signal and maximum load Upper cutoff frequency Response time (10...90%)	DC Volts Hz milliseconds	10 - 30 (14 - 30 for 0 - 10 V output signal) 4-20 mA 2-wire system $R_A[\text{Ohm}] < (U_B[\text{V}]-10\text{V}) / 0.02 \text{ A}$ {0-20 mA 3-wire system} $R_A[\text{Ohm}] < (U_B[\text{V}]-10\text{V}) / 0.02 \text{ A}$ {0-5 V 3-wire system} $R_A > 5 \text{ kOhm (min)}$ {0-10 V 3-wire system} $R_A > 10 \text{ kOhm (min)}$ {other signal outputs available}
Accuracy (linearity, including hysteresis and repeatability) Repeatability Hysteresis 1 year stability	% of span % of span % of span	<0.50% (B.F.S.L.) < 0.05 < 0.1 < 0.2 (under reference conditions)
Temperature Media Ambient Storage Compensated range Temperature error (reference 70°F) on zero point on span	 % of span	-22°F to +212°F (-30°C to +100°C) { -40°F to +257°F (-40°C to +125°C)} -4°F to +176°F (-20°C to +80°C) -40°F to +212°F (-40°C to +100°C) +32°F to +176°F (0°C to +80°C) < 0.3 per 18°F (10°C) change < 0.2 per 18°F (10°C) change
CE conformity		Interference emission per EN 50 081-1 (March 1993) and EN50 081-2 (March 94), Interference immunity per EN 50 082-2 (March 1995)
Shock resistance Vibration resistance	g g	1000 per IEC 770 for mechanical shock 50 per IEC 770 for vibration under resonance conditions
Electrical connection Weight Dimensions Electrical protection Environmental protection	 lb	4-pin miniature L-plug per DIN 43 650 {5 foot vented flying lead, 4 or 6 pin MIL plug} {custom plug and cable assemblies} approximately 0.2 (0.1 Kg) see drawing protected against reverse polarity, short circuit, and overvoltage IP 65 (NEMA 5) with 4 pin L-plug, MIL plugs {IP 67 (NEMA 4) with 5 foot flying lead}

Notes: Items in curved brackets { } are available as special order options

Dimensions

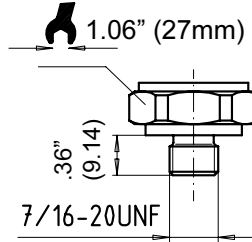
DIN 43 650 miniature L-plug



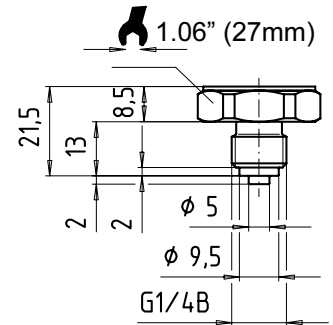
Optional process connections

SAE #4 male O-ring boss

(for ranges from 400 to 15,000 PSI)

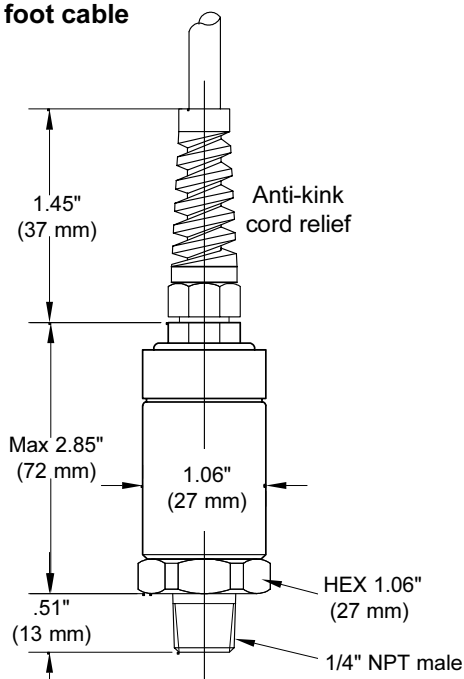


G1/4B BSP

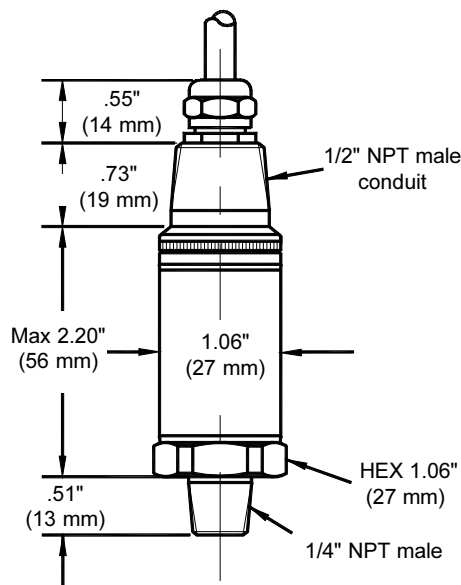


(metric connections shown in mm)





5 foot cable



1/2" NPT male conduit with 5 foot cable



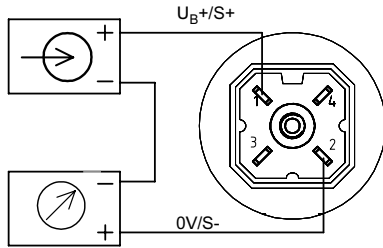
Electrical connections

	Standard			
				
Type	DIN 43 650 Mini -L plug	Din 43 650 with 6' cable	5' vented cable	1/2" NPT male conduit
Protection	NEMA 5 IP 65	NEMA 5 IP 65	NEMA 4 IP 67	NEMA 4 IP 67
Description and part numbers	Standard part # 9735882	Plug with heavy duty 6' molded cable part # 9740010	Vented cable with free ends. Longer lengths available. Custom order.	1/2" NPT male conduit and 5' cable with free ends

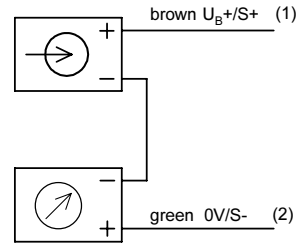
Wiring

2-wire system

DIN 43 650 plug

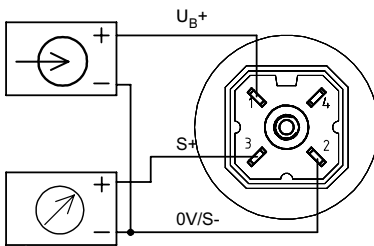


flying lead

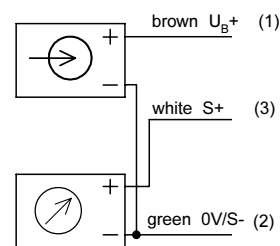


3-wire system

DIN 43 650 plug



flying lead



2-wire system

Wire	Coding	DIN Plug	Wire Color
Supply +	$U_B+ / S+$	pin 1	brown
Signal -	$0V / S-$	pin 2	green

3-wire system

Wire	Coding	DIN Plug	Wire Color
Supply +	U_B+	pin 1	brown
Supply - Signal -	$0V / S-$	pin 2	green
Signal +	$S +$	pin 3	white

THE MEASURE OF
Total Performance™

Ordering Information:

State computer part number (if available) / type number / range / output / process connection / electrical connection / other required options.

Specifications given in this data sheet represent the state of engineering at the time of printing. Modifications may take place and the specified materials may change without prior notice

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WIKA Instrument Corporation

1000 Wiegand Boulevard

Lawrenceville, Georgia 30043-5868

Tel: 770-513-8200 Fax: 770-277-2641

http://www.wika.com e-mail: Tronic@wika.com