

The TDH60 Series Low Cost OEM Dual Output Temperature and Pressure Transducer with all Stainless Steel Wetted Parts













APPLICATIONS

- Hydraulic / Mobile Hydraulic
- Pneumatic Systems
- Food and Beverage Industry
- Refrigeration Systems
- Pumps and Compressors
- · Energy and water management
- · Construction and Agricultural Equipment

DESCRIPTION

SERIES: TDH60

The TDH60 Series Dual Output Temperature and Pressure Transducer utilizes piezoresistance technology in an all stainless steel body. It is compact in size, has long term stability, ease of installation and is very economical as well as reliable.

The TDH60 sets a new price-performance standard for low cost, high volume commercial and industrial applications.

FEATURES

- Vac ranges to +285 psi or pressure ranges 0 to 3 psi up to 10,000 psi
- Various Outputs
- Compact Design
- 316 Stainless steel Housing
- All stainless steel wetted parts

- High 125° C (257° F) operating temperature
- Low Cost
- Better 0.4% Accuracy
- Custom Outputs and Ranges Available
- OEM Tested and Approved
- · Low power consumption

ELECTRICAL CONNECTIONS

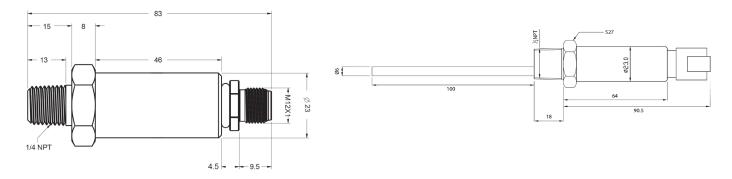
9.4MM DIN				
SIGNAL	FUNCTION	COLOR	PIN	9.4mm DIN
	SUPPLY +	RED	1	
VOLTAGE (0-5V, 0-	СОМ	BLACK	2	
10V, 0.5-4.5V)	T-OUTPUT+	WHITE	3	/
	P-OUTPUT+	GREEN	4	/
	SUPPLY+	RED	1	(2
CURRENT (0-20mA,	P-OUTPUT	BLACK	2	\ '
4-20mA)	T-OUTPUT	WHITE	3	\
	NC	GREEN	4	1

4-PIN M12				
SIGNAL	FUNCTION	COLOR	PIN	M12
	SUPPLY +	BROWN	1	4
VOLTAGE (0-5V, 0-	P-OUTPUT +	WHITE	2	
10V, 0.5-4.5V)	сом	BLUE	3	
	T-OUTPUT +	BLACK	4	1 1 3
	SUPPLY +	BROWN	1	
CURRENT (0-20mA,	P-OUTPUT	WHITE	2	
4-20mA)	NC	BLUE	3	
0.07	T-OUTPUT	BLACK	4	2

4-PIN DEUTSCH				
SIGNAL	FUNCTION	COLOR	PIN	4-PIN DEUTSCH
	сом	BLACK	1	111102010011
VOLTAGE (0-5V, 0-	SUPPLY+	RED	2	Pin 4 Pin 1
10V, 0.5-4.5V)	T-OUTPUT+	GREEN	3] FIN 4 76 of FIN 1
	P-OUTPUT+	WHITE	4	Pin 3 Pin 2
	NC	BLACK	1	
CURRENT (0-20mA,	SUPPLY+	RED	2	D: 1 DI LD: 2 D L
4-20mA)	T-OUTPUT	GREEN	3	Pin 1 = Black, Pin 2 = Red Pin 3 = Green, Pin 4 = White
	P-OUTPUT	WHITE	4	5 - 5.561 (1111 4 - Willie



DIMENSIONS



Dimensions are in millimeters and for reference only

Over all length of Deutsch connector units will change with different outputs and pressure ranges. 78.5mm is the max possible length.

SPECIFICATIONS

Performance @ 25°C (77 °F)

Accuracy

Stability Thermal Error

Compensated Temperatures
Temperature measurement range

Current Consumption

Temp probe max pressure

Zero and Span Offset Tolerance Shock

Vibration

Reverse Polarity Protection

Mechanical Configuration

Pressure Port

Electrical Connection

Ingress Rating

Housing

Diaphragm Material

0.4% FS, BFSL (includes non-linearity, hysteresis and non-repeatability)

0.2% FS 1% FS

-Pressure (-40) to 125° C Temperature (-40) to 120° C

46mA (4-20mA), 12mA (0-5V, 1-6V), 14mA (0-10V), 10mA (0.5-4.5V)

Equal to the pressure sensor (without extended temp probe), or 300bar (with

extended 6 mm probe) 1.5%

1.5%

50g, 11ms, 1/2 sign

11g peak from 10 to 400 Hz

Yes

Inpu

Proof Pressure

Burst Pressure

Fatique Life

Approvals

Supply Voltage / (Output) 9-32 VDC (4-20mA)

7-32 VDC (0-5VDC)

12-32 VDC (0-10 VDC, 1-6 VDC) 5 VDC (0.5-4.5 VDC ratiometric)

7-32 VDC (0.5-4.5 VDC Non-

ratiometric)

Pressure Range Vac to 285 psi, pressure 0-3 psi,

up to 10,000 psi

>7250 psi require 0mm probe

3-6000 psi = 3 x

6000-10K psi = 2 x

3-6000 psi = 4x

6000-10K psi = 3x

More than 4 million cycles

CE

1/4 NPT (standard) *

4 pin M12, 4 pin Deutsch (DT04-4P), 9.4 DIN 3 pin Deutsch (DT04-3P) *4-20mA only

IP67

316 stainless steel

316L SS < 1500 psi, 17-4 SS 1500 psi and

above, wetted parts are SS, no

internal O-rings

For best performance use shielded cables.

Mating connectors and cable assemblies sold separately.

* Consult factory for further OEM options.

ORDERING

Series Pressure Output TDH60	Temp Output B —	PressureType — G —	005	re Range 50	Pressure Port 03 —	Electrical Connection A Q00 —	5	Probe Length 10mm
B = 4-20mA (3 wire) C = 0-5V (4 wire) D = 0-10V (4 wire) K = 0.5-4.5V (4 wire) **	C = 0-5V (4 wire) D = 0-10V (4 wire)	**	(psi) V000 V015 V045 V085 V135 V185 V285	0015 0025 0050 0100 0250 0500 1000 3000 5000	03= 1/4" NPT Male (0mm probe only) 06= 1/2" NPT Male (STD) **	Q00= M12 5: X300= 3 pin Deutsch (current output only) X400= 4 pin Deutsch **	= 0.4%	Probe length 0-100mm (if 0mm then leave blank) * >7250psi only available as 0mm*

^{**=} Consult factory for further OEM options

Pressure ranges and outputs listed above are quick ship versions

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Transducers Direct web site, it is up to the customer to determine the suitability of the product in the application.

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