

### Description and Application

The KMC TPE-1483 series of liquid pressure transducers incorporates a wet/wet differential pressure transmitter featuring low hysteresis, excellent repeatability, and long-term stability.

Up to four field-selectable input ranges are available in most models. The field-selectable feature provides a single model that can be configured to cover all the input pressure ranges for any given application.

Three output ranges are field selectable: 4 to 20 mA, 0 to 5 VDC, and 0 to 10 VDC. The output signal is factory-calibrated and temperature-compensated for the highest start-up accuracy.

TPE-1483s can be powered from a 18 to 28 VAC/ VDC (non-isolated half-wave rectified) power source. They incorporate a rugged NEMA 4X and IP65 enclosure.

TPE-1483s may be used with any liquid or gas that is compatible with 17-4 PH stainless steel. They are suited for any application requiring a reliable pressure monitor providing a dependable conditioned and compensated signal output.

### ⚠ CAUTION

#### Do not use:

- In an explosive or hazardous environment
- With combustible or flammable gasses
- As a safety or emergency stop device
- In any other application where failure of the product could result in personal injury

**NOTE:** This document is for the units available starting in late 2008. See Rev. B of this data sheet for the earlier enclosure and specifications.



CE

RoHS  
COMPLIANT

### Features

- ◆ Push-button and remote zeroing terminal
- ◆ Uni-directional or bi-directional pressure-range selection switch
- ◆ High/low port swap switch to solve incorrect plumbing for differential
- ◆ Normal or slow-surge damping switch to prevent false alarms and reduce noise
- ◆ Output polarity reverse switch—in reverse mode the analog output is maximum when the pressure differential is zero and decreases as pressure increases

### Models

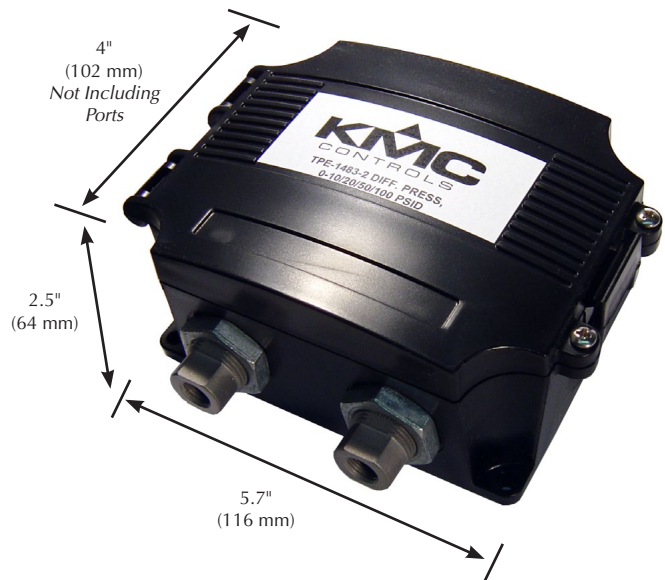
The models are available with the following jumper-selectable pressure ranges:

TPE-1483-1	0 to 5/10/25/50 psig/d
TPE-1483-2	0 to 10/20/50/100 psig/d
TPE-1483-3	0 to 50/100/250/500 psig/d

## Specifications

<b>Media compatibility</b>	17–4 PH stainless steel
<b>Supply Voltage</b>	18 to 28 VAC/VDC (non-isolated half-wave rectified)
<b>Supply Current</b>	35 mA, maximum @ 24 VDC
<b>Output Signal</b>	4 to 20mA, 0 to 5 VDC, or 0 to 10 VDC, field selectable
<b>Pressure Ranges</b>	Field selectable: TPE-1483-1 0 to 5/10/25/50 psig/d TPE-1483-2 0 to 10/20/50/100 psig/d TPE-1483-3 0 to 50/100/250/500 psig/d
<b>Line Pressure</b>	Highest of the selectable ranges on each model
<b>Proof Pressure</b>	Max. 2X highest range per model
<b>Burst Pressure</b>	Max. 5X highest range per model
<b>Accuracy</b>	±1% F.S. (Full Scale) combined linearity, hysteresis, and repeatability; lowest range on each model has accuracy ±2% F.S
<b>Pressure Cycles</b>	> 100 million
<b>Surge Damping</b>	Normal 4-second averaging or slow 8-second averaging, switch selectable
<b>Temperature Compensation Range</b>	32 to 130° F (0 to 55° C)
<b>Sensor Operating Range</b>	–40 to 185° F (–40 to 85° C)
<b>Long Term Stability</b>	±0.25% typical (1 year)
<b>Zero Adjust</b>	Push-button and remote-input auto-zero
<b>Operating Environment</b>	32 to 122° F (0 to 50° C), 10 to 90% RH, non-condensing
<b>Fittings</b>	1/8" NPT female
<b>Enclosure</b>	ABS with hinged lid and gasket, 5.7" W x 4" H x 2.5" D (145 x 102 x 64 mm), NEMA 4X and IP65
<b>Shock</b>	100 G, 11 mSec, 1/2 sine
<b>Vibration</b>	20 G peak 20 to 2000 Hz
<b>Weight</b>	0.83 lbs. (0.37 kg)
<b>Manufacturing</b>	ISO 9001 registered quality system
<b>Regulatory</b>	CE and RoHS Compliant

## Dimensions



All dimensions are in inches (mm)

### ⚠ CAUTION

Ensure that the maximum individual port pressure does not exceed the maximum pressure range of the unit.

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