INTEGRATED VISUAL DATA TECHNOLOGY INC.
Solutions that lift your business

Pressure Transducer

IPT-1500 pressure transducer meet the highest specifications for longevity, accuracy, temperature stability and EMC characteristics, making them suitable for an extremely wide range of demanding industrial truck applications.

* Compact, rugged construction for highest operational reliability
* No media egress when exceeding rupture pressure
* Negligible temperature influence on accuracy
* Excellent EMC capacity
* Saving time by quick cable mounting by the customer with quick connector

TECHNICAL

Pressure range
Relative 0 - 3000 PSI
Operating conditions
Medium, liquids
Temperature
FPM -15 ... +125 ÀC -40 ... +150 ÀC (UL max. 125 ÀC)
EPDM -25 ... +125 ÀC NBR -25 ... +85 ÀC Ambient 1)
Tolerable overload / Rupture pressure 2) < 6 3.0 x fs
> 6 2.5 x fs (max. 900 bar)
Materials
Case Stainless steel 1.4305 / AISI 303
Materials in contact with the medium
Pressure connection Stainless steel 1.4305 / AISI 303
Sensor Ceramic Al2O3 (96%)
Media stop system PPS
Sealing material FPM, EPDM, NBR, FPM spec.
Media stop system
Patented media stop system to prevent media egress when exceeding rupture pressure range (> 40 bar nominal value).
Electrical
Output Power supply Load Current consumption
3 wire
0 ... 2.5 V 8.0 ... 33 VDC >10 kOhm / < 100 nF < 4 mA ratiom.
Polarity reversal protection. Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
Insulation voltage, standard 500 VDC
Dynamic response
Response time < 2 ms, typ. 1 ms
Load cycle < 100 Hz
Protection standard
With connector DIN EN 175301-803-C IP 65
Electrical connection
Cable 1.5 m
Quick connector, connector M12x1 metal thread
Connector DIN EN 175301-803-C (industrial standard 9.4 mm)
Pressure transducer connection
Male thread 1/4”-18 NPT
Installation arrangement unrestricted
Tests / Admissions
Electromagnetic compatibility CE conformity acc. EN 61326-2-3
UL acc. Standard 61010-1
Shock acc. IEC 60068-2-27 100 g, 11 ms half sine wave, all 6 directions. Free fall from 2 m on concrete (6x)
Constant shock acc. IEC 60068-2-29 40 g for 6 ms, 1000x all 3 directions
Vibration acc. IEC 60068-2-6 20 g, 2 ... 2000 Hz with amplitude µ 15 mm, 1 Octave/min. all 3 directions, 50 constant load
Weight, 95 g
Tolerance zero point max. % fs µ0.3
Tolerance full scale max. % fs µ0.3
Resolution % fs 0.1
Total of linearity,
hysteresis and repeatability max. % fs µ0.3
Long term stability acc. DIN EN 60770 % fs µ1.0
TC zero point 4) max. % fs/10K µ0.15
TC sensitivity 4) max. % fs/10K µ0.15
Test conditions: 25 ÀC, 45% RH, power supply 24 VDC
TC z.p. / TC s. -40 ... +125 ÀC
Order Number IPT-1500
Technical data subject to change