

Hoge-druk-transmitter

Designed for measurement of high pressure

The HT420 Series is designed for the OEM or end user where ruggedness, high performance, and reliability are required at a competitive price. Key feature of the sensing element is its small size, which greatly reduces the amount of force exerted by high pressure. This feature makes the HT420 ideal for high cyclical/high pressure applications.

Manufactured for extended life cycles

The HT420 Series is built using advanced manufacturing techniques with automated weld procedures, extreme environmental burn-in and through residual stress relieving techniques. The HT420 is modular and configurable to meet HT's customers exact requirements.

Standard NEMA 4X packaging

Every HT420 Series is rated to NEMA 4X standards regardless of pressure range or format. Pressure ranges are available from 0-20K psi through 0-100K psi. Type M < 4000 Bar, type N > 4000 Bar

HT's Customer Service

Every HT420 Series is shipped with a NIST traceable calibration certificate.

Standard Features

- <± 0.25% FSO Static Accuracy
- NEMA 4X Packaging
- <± 0.25% FSO/YR Stability

Available Options

- <± 0.1% FSO Static Accuracy
- Zero & Span Controls
- Digital Output



0-20K through 0-100K psi
High Accuracy/High Stability

Product Specifications

Electrical

Excitation	2-15 Vdc 8-38 Vdc
Output	
HT420-1	1-2 mV/V
2	0-5 Vdc*
3	4-20 mAdc
Zero Balance	≤± 1% FSO
FSO Setting	≤± 1% FSO
Resolution	Infinite (± 0.001% FSO usable)
Response Time	
HT420-1	< 1 mS
2,3	< 5 mS
Insulation Resistance	1,000 M Ω @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	≤± 0.002% FSO per V input
EMI/RFI	Internal Filtering
Short Circuit Protected	Up to 40 Vdc

Mechanical

Pressure Ranges	0-20K through 0-100K psi (Customer may specify any range/eng. unit)
Proof Pressure	2X Full Scale* (160K psi max)
Burst Pressure	5X Full Scale* (180K psi max)
Materials	
Wetted Parts	15-5 SST ranges ≤ 40 K PSI Custom 465 ranges > 40 K PSI
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	Autoclave F-312-C*
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	Per outline below
Weight	Nominal 12 oz

Environmental

Compensated Temp Range	0 to 170° F
Operating Temp Range	-40 to 200° F
Storage Temp Range	-40 to 250° F

Performance

Static Accuracy	≤± 0.25% FSO* (BFSL, RSS) (Combined effects of non-linearity, hysteresis & repeatability)
Repeatability	≤± 0.15% FSO
Temperature Effects	≤± 1.5% FSO over comp range* (Combined effects of Zero & FSO with reference at 70° F)
Long Term Stability	≤± 0.25% FSO per year

