GEFRAN

TPSADA

DIGITAL AUTOZERO & SPAN OPTION



Main Features

- · Coarse Magnetic Autozero
- · Fine Magnetic Autozero
- Calibration Signal 80% FS
- · Magnetic Autospan
- Partial reset function
- Total reset function

Digital "Autozero & Span" option makes the pressure transmitter **TPSA Series** a product extremely innovative and versatile.

Designed thanks to the advanced electronics used by TPSA, this function allows zero and span adjustment in a simple, fast and reliable way, avoiding to use analogue trimmer, potential weak point and source of possible drifts or failures.

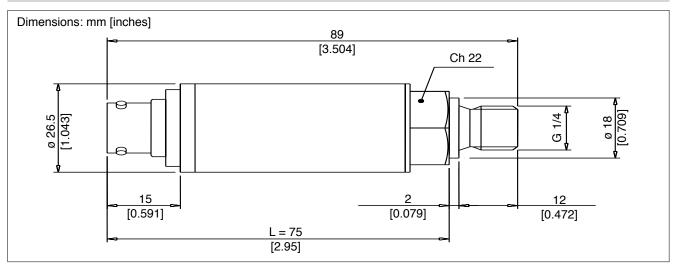
The starting is user friendly, simply touching the specific target marked on the sensor body with a pen with magnetic head (included as standard).

Within few seconds the operation is concluded, without the need to dismantle or to open the instrument.

TECHNICAL DATA

Autozero	±10%FS max with zero setting within the sensor accuracy class, @ °T Amb.
Autozero Setting Time	110 seconds
Fine Autozero Adjustment	Resolution 6 mV (voltage output); 12 μ A (current output)
Fine Autozero Adjustment Amplitude	±100 mV (voltage output), ±0.16 mA (current output) by successive steps with maximum
	setting time 5 sec. per step
Calibration Function	Signal output generation of 80% FS @ °T Amb.
Calibration Function Setting Time	>1 sec. (by contacts closed in CAL position)
Autospan	±5%FS max with span setting within the sensor accuracy class, @ °T Amb.
Autospan Setting Time	110 sec. (by contacts closed in CAL position)
Partial Reset	Restore of zero factory setting
Partial Reset Setting Time	3060 sec
Total Reset	Restore of complete factory setting
Total Reset Setting Time	>60 sec
Function Activation	By pen with magnetic head (PKIT 312)

INSTALLATION DRAWINGS



Dimensions: TPSADA, due to the autozero & span board, is 5 mm (0.197 in) longer, so dimension "L" on TK data sheet

becames 75 mm (2.95 in).

CAL function pin: The activation of CAL function (Calibration and Autospan) is made by closing the contact between the

following pin: - 6 pole connector version (V) pin E-F

- 7 pole connector version (P) pin 5-6

Please refer to the standard data sheet for all the remaining mechanical and electrical specifications.

ORDERING INFORMATION Pressure transmitter TPSADA **OUTPUT SIGNAL** Mechanical and/or electrical cha-Standard racteristics differing from standard may be arranged on request. 0.1 ... 10.1 Vdc C 4...20 mA Ε 0...10 Vdc Ν **RESPONSE TIME** On request Fast (< 1 msec) 0.1 ... 5.1 Vdc 0 ... 5 Vdc **ACCURACY** 1 ... 5 Vdc Р ± 0.1% FS typical 1 ... 10 Vdc Q ≥100bar/1500psi 1 ... 6 Vdc Т ±0.15% FS typical PRESSURE CONNECTION <100bar/1500psi Standard G 1/4 gas male (DIN 3852-A) **MEASUREMENT RANGE** On request bar psi 7/16-20 UNF-2A male 2 **B04U** 0..4 P06D 0..60 (SAE 4 per AS4395-E) **B05U** 0..5 P75U 0..75 3 G 1/2A (DIN 16288) **B06U** 0..6 P01C 0..100 4 G 1/4 gas female P15D B07U 0..7 0..150 5 1/8-27 NPT female P25D B01D 0..250 0..10 1/4 - 18 NPT female 6 B16U 0..16 P₀3C 0..300 1/4 - 18 NPT male 7 B₀2D 0..20 P05C 0..500 M14 x 1.5 male 8 1/8 - 27 NPT male 9 **B25U** 0..25 P75D 0..750 0..30 B₀3D P15C 0..1500 G 1/4 gas male (DIN 3852-E) B04D 0..40 **P02M** 0..2000 M12 x 1.5 male R B₀₅D 0..50 P25C 0..2500 7/16-20 UNF-2A male Κ (SAE 4for J1926-2) (*) B01C 0..100 **P03M** 0..3000 7/16-20 UNF-2A female **B16D** 0..160 **P04M** 0..4000 (SAE 4) B02C P75D 0..200 0..750 (*) Max. working pressure: 630 bar B25D 0..250 P₁₅C 0..1500 (9137 psi) P₂₀C **B35D** 0..350 0..2000 **ELECTRICAL CONNECTION** B04C 0..400 P25C 0..2500 EN 175301-803 type A (P 18 mm) **E (*)** B05C 0..500 P03M 0..3000 Shielded cable F (*) B06C 0..600 P05M 0..5000 4-pole connector M12 x 1 Z (*) B07C 0..700 P75C 0..7500 EN 175301-803 type C (P 9.5 mm) M (*) B01M 0..1000 P10M 0..10000 7 pole connector M16x0.75 P15M 0..15000 6 pole bayonet connector (*) With this kind of connector is available the "Autozero" function only. CALIBRATION STANDARDS For special request contact Gefran. Instruments manufactured by Gefran are calibrated against precision pressure calibration equipment wich is traceable to International Standards. Ex.: TPSADA - N - 1 - P - B35D - T - V Pressure transmitter TPSADA digital autozero & span, 0...10Vdc output signal, G 1/4 male pressure connection, 7 pole connector, 0...350 bar measurement range, ± 0.1% FS accuracy, 1msec response time. Sensors are manufactured in compliance with: - EMC 2014/30/EU compatibility directive - RoHS 2011/65/EU directive Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice

GEFRAN spa

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