GEFRAN

TKDA DIGITAL AUTOZERO & SPAN OPTION



Main Features

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

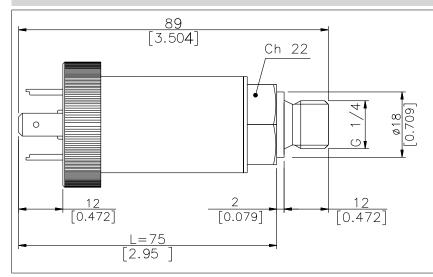
Digital "Autozero & Span" option makes the pressure transmitter **TK Series** a product extremely innovative and versatile. Designed thanks to the advanced electronics used by TK, this function allows zero and span adjustment in a simple, fast and reliable way, avoiding to use analogue trimmer, potential 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 µA (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	±10%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:

TKDA, 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

ORDERING INFORMATION **TKDA** Pressure transmitter OUTPUT SIGNAL Mechanical and/or electrical cha-Standard racteristics differing from standard may be arranged on request. 0,1 ... 10,1 Vdc 4...20 mA Ε 0...10 Vdc Ν **RESPONSE TIME** On request Fast (< 1 msec) 0,1 ... 5,1 Vdc 0 ... 5 Vdc М 1 ... 5 Vdc Р **ACCURACY** 1 ... 10 Vdc Q Н ± 0,25% FSO Typical 1 ... 6 Vdc R ± 0,5% FSO Typical PRESSURE CONNECTION Standard G 1/4 gas male (DIN 3852-A) **MEASUREMENT RANGE** 7/16-20 UNF-2A male 2 bar bar psi (SAE 4 for AS4395-E) N01U B03D 0..30 V15U -1..+1 -15..+15 * 3 G 1/2A (DIN 16288) B04D 0..40 V03D N02U -1..+2 -15..+30 * On request B05D V05D N03U -1..+3 * 0..50 -15..+50 * G 1/4 gas female 4 **N05U** -1..+5 B06D 0..60 V75U -15..+75 1/8-27 NPT female 5 1/4 - 18 NPT female N01D -1..+10 B01C 0..100 V01C -15..+100 6 1/4 - 18 NPT male 7 **B03U** 0..3 **B16D** 0..160 P₀₅D 0..50 M14 x 1,5 male 8 **B04U** B02C 0..200 P75U 0..75 0..4 1/8 - 27 NPT male 9 **B05U** P01C 0..5 B25D 0..250 0..100 **B06U** G 1/4 gas male (DIN 3852-E) Ε 0..6 B35D 0..350 P15D 0..150 **B07U** 0..7 B04C 0..400 P25D 0..250 M12 x 1,5 male R 7/16-20 UNF-2A male B01D B05C 0..500 P₀3C 0..300 0..10 Κ (SAE 4 for J1926-2) (*) **B16U** 0..16 B06C 0..600 P05C 0..500 7/16-20 UNF-2A female **B02D** 0..20 B07C 0..700 P75D 0..750 F (SAE 4) **B25U B01M** 0..1000 P01M 0..25 0..1000 (*) Max. working pressure: P15C 0..1500 630 bar (9137 psi) P25C 0..2500 **ELECTRICAL CONNECTION** * only M class **P03M** 0..3000 Standard P05M 0..5000 4-pole connector solenoid | E (•) P75C 0..7500 Shielded cable | F (°) **P10M** 0..10000 4 pole connector M12 x 1 | Z (•) P15M 0..15000 On request 4-pole connector microsolenoid | M (•) **CALIBRATION STANDARDS** 7 pole connector Р Instruments manufactured by Gefran are calibrated 6 pole connector against precision pressure calibration equipment wich is (•) With this kind of connector is available the "Autozero" function only. traceable to International Standards. For special request contact Gefran. Ex: TKDA - E - 1 - V - B04C - H - V Pressure transmitter TKDA with digital autozero & span, 4 to 20 mA output signal, G1/4 male pressure connection, 6 pole electrical connector, 0...400 bar pressure range, ±0.25% FSO accuracy, 1 msec 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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