GEFRAN

TKDA DIGITAL AUTOZERO & SPAN OPTION



Main Features

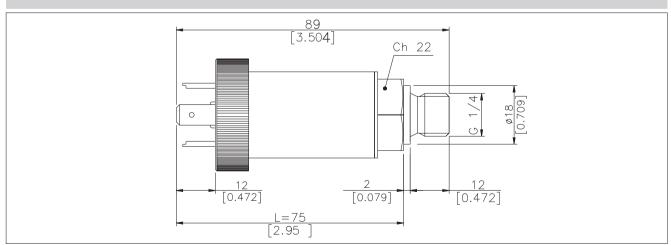
- Course Magnetic Autozero
- Fine Magnetic Autozero
- Calibration Signal 80% FS
- Magnetic Autospan
- Partial reset function
- Total reset function

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).

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

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

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

ORDERING INFORMATION Pressure transmitter **TKDA** Mechanical and/or electrical characteristics **OUTPUT SIGNAL** differing from standard may be arranged on Standard request. 0,1 ... 10,1 Vdc C 4...20 mA E RESPONSE TIME 0...10 Vdc Ν Fast (< 1 msec) On request 0,1 ... 5,1 Vdc В ACCURACY 0 ... 5 Vdc М ± 0.25% FSO Typical Н 1 ... 5 Vdc P 1 ... 10 Vdc ± 0.5% FSO Typical Q M 1 ... 6 Vdc R **MEASUREMENT RANGE** PRESSURE CONNECTION bar bar psi Standard N01U -1..+1 **B25U** 0..25 V15U -15..+15 * G 1/4 gas male (DIN 3852-A) N02U -1..+2 V03D -15..+30 * B₀3D 0..30 7/16-20 UNF-2A male 2 N03U -1..+3 * B04D 0..40 V05D -15..+50 * (SAE 4 for AS4395-E) **N05U** -1..+5 B05D 0..50 -15..+75 V75U G 1/2A (DIN 16288) 3 **N01D** -1..+10 B06D 0..60 -15..+100 V01C On request **B03U** 0..3 B01C 0..100 0..50 G 1/4 gas female P05D 1/8-27 NPT female B16D 0..160 **B04U** 0..4 0..75 P75U 1/4 - 18 NPT female **B02C** 0..200 P01C 6 **B05U** 0..5 0..100 1/4 - 18 NPT male B25D 0..250 **B06U** 0..6 P15D 0 150 M14 x 1.5 male 8 B35D 0..350 **B07U** 0..7 0..250 **P25D** 1/8 - 27 NPT male q B04C 0..400 B01D 0..10 0..300 P₀3C G 1/4 gas male (DIN 3852-E) **B16U** 0..16 B05C 0..500 P05C 0..500 M12 x 1.5 male R 0..20 P75D B₀2D 0..750 7/16-20 UNF-2A male Κ P01M 0..1000 (SAE 4 for J1926-2) (*) * only M class 7/16-20 UNF-2A female P15C 0..1500 F (SAE 4) P25C 0..2500 P03M 0..3000 (*) Max. working pressure: P05M 0..5000 630 bar (9137 psi) **P75C** 0..7500 **ELECTRICAL CONNECTION** CALIBRATION STANDARDS Standard Instruments manufactured by Gefran are calibrated against precision pressure calibration equipment wich is 4-pole connector solenoid traceable to International Standards. Shielded cable F (°) 4 pole connector M12 x 1 **Z** (°) On request 4-pole connector microsolenoid M (°) 7 pole connector Р 6 pole connector (°) With this kind of connector is available the "Autozero" function only. For special request contact Gefran. Es: TKDA - E - 1 - V - B04C - H - V Pressure transmitter TK 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

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

