

Gefran Range Of Products



Rectilinear Displacement Transducer

50 to 900 mm stroke. Mechanical linkage using M6 thread. Independent linearity $\pm 0,05\%$. Repetibility 0,01mm; Infinite resolution. No variation of electrical signal outside theoretical electrical stroke. Displacement speed up to 5 m/s. Working temperature: $-30...+100^{\circ}\text{C}$. Life duration: $> 25 \times 10^6$ meters or $> 100 \times 10^6$ operations whichever is the smaller (within C.E.U.); Grade of protection IP60 (optional IP65)

Model: LT



Rodless Rectilinear Displacement Transducer

100 to 2000 mm stroke. Mechanical linkage using joint M5 thread. Independent linearity up to $\pm 0,05\%$. Repetibility 0,01 mm; Infinite resolution. No variation of electrical signal outside theoretical electrical stroke. Displacement speed up to 10 m/s. Working temperature: $-30...+100^{\circ}\text{C}$. Life duration: $> 25 \times 10^6$ meters or $> 100 \times 10^6$ operations. Grade of protection IP40.

Model: PK



Rectilinear Displacement Transducer With Ball Tip

10 to 100 mm stroke. Double support of the control rod and return spring. Tip with M2.5 thread and stainless steel ball. Independent linearity up to $\pm 0,1\%$. Infinite resolution. No variation of electrical signal outside theoretical electrical stroke. Displacement speed up to 10 m/s. Working temperature: $-30...+100^{\circ}\text{C}$. Life duration: $> 100 \times 10^6$ operations (within C.E.U.). Grade of protection IP40

Model: PY2



Selfloading Rectilinear Displacement Transducer with Cylindrical Case

50 to 750 mm stroke. Mechanical fixing and selfaligning linkage using 2 ball-joints. Maximum angular movement up to $\pm 30^{\circ}$. Independent linearity $\pm 0,05\%$. Repetibility 0,01 mm; Infinite resolution. No variation of electrical signal outside theoretical electrical stroke. Displacement speed up to 5 m/s. Working temperature: $-30...+100^{\circ}\text{C}$. Life duration: $> 25 \times 10^6$ meters or $> 100 \times 10^6$ operations, whichever is the smaller (within C.E.U.); Grade of protection IP65.

Model: PC



Rectilinear Displacement Transducer with Cylindrical Case

25 to 250 mm stroke. Mechanical fixing using brackets, selfaligning ball-joints or flange. Independent linearity up to $\pm 0,05\%$. Infinite resolution. No variation of electrical signal outside theoretical electrical stroke. Displacement speed up to 10 m/s. Working temperature: $-30...+100^{\circ}\text{C}$. Life duration: $> 25 \times 10^6$ meters or $> 100 \times 10^6$ operations whichever is the smaller (within C.E.U.). Grade of protection IP60.

Model: PZ12



Rectilinear Displacement Transducer with Cylindrical Case

25 to 300 mm stroke. Mechanical fixing using brackets, selfaligning ball-joints or flange. Independent linearity up to $\pm 0,05\%$. Infinite resolution. No variation of electrical signal outside theoretical electrical stroke. Displacement speed up to 10 m/s. Working temperature: $-30...+100^{\circ}\text{C}$. Life duration: $> 25 \times 10^6$ meters or $> 100 \times 10^6$ operations, whichever is the smaller (within C.E.U.). Grade of protection IP60.

Model: PZ34



Pressure Transmitter

Pressure range: from 0...3 to 0...500bar and from $-1...+1$ to $-1...+10$ bar. Output signal 4...20mA two wires / 0,1...5,1Vdc / 0,1...10,1Vdc / 0...5Vdc / 0...10Vdc / 1...5Vdc / 1...10Vdc. Protection: IP65/IP67. Wetted material: AISI 430 and 17-4PH.

Model: TK/TKDA



Pressure Transmitter

Measurement range: from 0...50 to 0...1000bar
Accuracy: $\pm 0,1\%$ FS typical Voltage or current output signal Protection: IP65/IP67 Material in contact with measurement fluid: 17-4PH
Permitted temperature range: $-40...+105^{\circ}\text{C}$

Model: TPSA/TPSADA



Melt Pressure Transmitters

The MN series of Gefran, are pressure transmitters for using in High temperature environment. The main characteristic of this series is the capability to read temperature of the media up to 400°C . The constructive principle is based on the hydraulic transmission of the pressure. The fluid-filled system assures the temperature stability. The physical measure is transformed in an electrical measure by means the strain-gauge technology.

Model: MN0-MN1-MN2

Gefran Range Of Products



Force Transducer For Measuring The Tension On Fixed or Rotating Spindles

Range of measurement: from 100N to 2kN
Accuracy class: 0,5% Corrosion resistant
Orientation of the axis of maximum sensitivity for 35° independently from the position of the fixing holes
Grade of protection: IP65 (DIN 40050)
Integrated protection against overloads

Model: TR



Load Cell For Compression Applications

Range of measurement: from 100 to 50.000Kg
Accuracy class: 0,1% All stainless steel construction
Corrosion resistant Internally generated calibration signal
Grade of protection: IP67 (DIN 40050)

Model: CM



Compact Load Cell For Compression Applications

Range of measurement: from 50 to 1.000 kg
Accuracy class: 0,2% All stainless steel construction
Corrosion resistant Grade of protection: IP67 (DIN 40050)
Compact size

Model: CU



Controller

Microprocessor temperature controller, faceplate configurable. Universal input, 4-digit double display; dimensions 48x48mm

Model: 600



High Performance Controller

Microprocessor controller. Up to 2 universal inputs for strain gauge/ TC/RTD/ linear/ potentiometer, 2 auxiliary analog inputs linear/pot., 2 isolated analog outputs for control, 4 PNP /NPN digital inputs, 4 relay outputs, isolated analog retransmission, RS485, transmitter supply and strain-gauge probe, differential and mathematical functions, 5-digits triple display (1 bicolor), bar graph, IP54 front panel protection, dimensions 96x96mm.

Model: 2500



Force, Pressure and Displacement Transducers Indicator with Input For Strain-gauge or Potentiometer

Force, pressure and displacement transducers indicator with input for strain-gauge or potentiometer, dimensions 48x48mm, 4 digits, microprocessor based and configurable through faceplate and PC.

Model: 40B 48



Force, Pressure and Displacement Transducers Indicator with Input for Strain-gauge or Potentiometer

Force, pressure and displacement transducers indicator with input for strain-gauge or potentiometer and magnetostrictive position sensors, dimensions 96x48mm, microprocessor based and configurable through faceplate and PC.

Model: 40B 96



Fast Display / Alarm Unit

Indicator/Alarm unit for load cells and strain-gauge pressure transducers. Up to 2 universal inputs for strain gauge/ TC/RTD/linear/ potentiometer, 2 auxiliary analog inputs linear/pot., 2 PNP/NPN digital inputs, 4 relay outputs, isolated analog retransmission output, RS485, transmitter supply and strain-gauge probe, mathematical functions, 5-digits display bicolors, IP54 front panel protection, dimensions 96x48mm.

Model: 2400



Single-phase Solid State Relays with SCR

Single-phase solid state relay for resistive and inductive loads.

Zero crossing switching.

Double SCR in antiparallel.

Logic control 20...260 Vac/dc.

Indication led.

Protection: IP20.

Model: GQ