



Main features:

- Complete system for the simultaneous strain-measurement on up to four tie bars
- Direct display of strain values in $\mu\epsilon$, kN or t
- Quick and non-destructive assembly with magnetic press-on technology
- High accuracy and linearity in tension and pressure (like bonded strain gauges)
- Ideal for use on presses, injection-moulding and die-casting machines
- Application on tie bars with a diameter of 45mm or higher and flat surfaces
- Dynamic applications
- 4- channel digital monitor DU4D
- USB connection for tie bar adjustment software (optional)
- Very compact and easy to use system

The DU-4D Monitor is an industrial signal amplifier and monitor for strain gauges and strain sensors. It has integrated functions for external and internal (automatic) reset. Force measurement on tie bars displays in kN or tons and diameter input. Strain measurement displays in $\mu\epsilon$ (micro strain). Direct switch units and change parameters. The handling is very user-friendly, the robust aluminium housing ideal for harsh environments.

The magnetic strain gauge sensor QE1008-W measure the surface-strain directly at the mounting location in the same quality as bonded strain gages. The magnetic press-on technology, developed by Sensormate AG, presses the strain gauges under the stainless protective film so strongly against the surface to be measured that frictional contact occurs. The mounting of the sensor is non-destructive, very fast and simple.

TECHNICAL DATA*

Strain gauge type	Foil (GF = 2.0)
Measuring range	$\pm 800 \mu\epsilon$
Accuracy	$<\pm 0,5\% \text{ FS}$
Linearity	$<\pm 0,5\% \text{ FS}$
Hysteresis	$<\pm 0,5\% \text{ FS}$
Repeatability	$< 0,2\% \text{ FS}$
Supply voltage (DU-4D)	85...260VAC / 50-60Hz, 0,5A
Operating temperatur range	5 bis $+50^\circ\text{C}$
Storage temperatur range	0 bis $+50^\circ\text{C}$

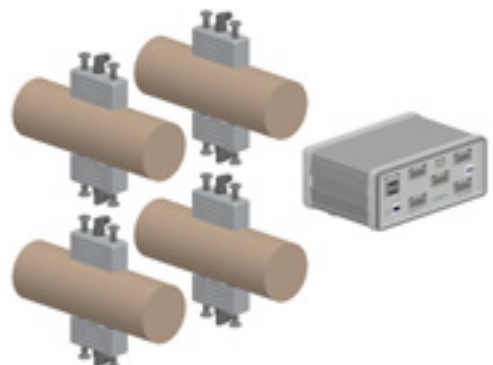
* Further specifications takes from data sheets „QE1008“ and „DU-4D“.

APPLICATION

System containing

- 4- Channel digital monitor DU-4D
- 8...10 Magnetic-mount strain sensors QE1008 incl. Y-cable
- Carrying case with inserts
- Repair-Kit Foils

External dimensions of carrying case	500 x 330 x 210 mm
Weight	approx. 13 kg



ORDER CODE

4- Channel system for tie bar strain measurement with digital Monitor

QE1008 - - - -

Number of QE1008 sensors	
8 pieces	08
9 pieces	09
10 pieces	10

Monitor type	
DU-4D	4D






Cable lenght	
3 m	03
5 m	05
10 m	10

Features	
USB-Output for tie bar adjustment- software	USB
US-tons instead tons	UST
Analog output: 0...10 VDC (only without USB-Output)	ANO
Analog output: 0...10 VDC and US-tons instead tons	AUS
No features	000

Example: QE1008 - 08 - 4D - 05 - ANO

Magnetic-mount strain sensor QE1008 (8 pieces), 4- Channel digital monitor DU-4D, Y-cable with lenght of 5m (4 pieces), analog output

ACCESSORIES

Description	Order code	Code	
Y-Cable	3 m	C - 678 - 030 - 680 - Y	F061939
	5 m	C - 678 - 050 - 680 - Y	F060629
	10 m	C - 678 - 100 - 680 - Y	F060630
Connection cable for analog output (option ANO)	C - DSUB - 005 - 4BCN	F062415	
Magnetic-mount strain sensor QE1008	QE1008 - C	F061230	
Repair-Kit Foils	REPAIR-KIT FOIL	F060472	
Power cord Typ A 	Power cord Typ A	F069672	
Power cord Typ C 	Power cord Typ C	F069671	
Power cord Typ D 	Power cord Typ D	F069673	
Power cord Typ K 	Power cord Typ K	F069674	
Power cord Typ L 	Power cord Typ L	F069670	

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



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