



Wichtigste Eigenschaften:

- Complete system for the strain-measurement on one tie bar
- 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
- 1- channel digital monitor DU1D
- Battery operation possible (optional) / not rechargeable
- Very compact and easy to use system

The DU-1D 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 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 Gefran Schweiz 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	$<\pm 0,5\%$ v. Ew.
Linearity	$<\pm 0,5\%$ v. Ew.
Hysteresis	$<\pm 0,5\%$ v. Ew.
Repeatability	$< 0,2\%$ v. Ew.
Supply voltage (power adapter)	100...240 VAC
Operating temperature range	5 bis $+55^\circ\text{C}$
Storage temperature range	0 bis $+55^\circ\text{C}$

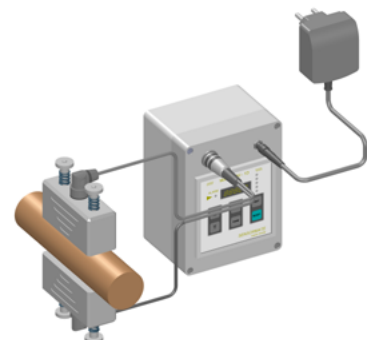
* Further specifications takes from data sheets „QE1008“ and „DU-1D“.

APPLICATION

System containing

- 1- Channel digital monitor
- 2 magnet-mount strain sensors QE1008 incl. Y-cable
- Carrying case with inserts, manual

External dimensions of carrying case	340 x 280 x 130 mm
Weight	approx. 5 kg



ORDER CODE

1- Channel system for tie bar measurement
with digital monitor

QE1008 - - - -

Number of sensors	
2 pieces	02

Monitor-type	
DU-1D	1D





Cable lenght	
3 m	03
5 m	05
10 m	10

Monitor features	
With battery case	BAT
US-tons instead of tons	UST
Battery + US-tons	BUS
No features	000

Example: QE1008 - 02 - 1D - 03 - BAT

Magnet-mount strain sensor QE1008 (2 pieces, 1- Channel digital monitor DU-1D, Y-cable with length of 3m, with battery case

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
Power supply 12VDC for DU-1D (incl. 4x plug adapter)    		F069683
Magnet-mount strain sensor QE1008	QE1008-C	F061230

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

GEFRAN

GEFRAN spa
via Sebina, 74 - 25050 Provaglio d'Iseo
(BS) - ITALIEN
Tel.: +39 030 9888.1 - Fax: +39 030 9839063
Internet: www.gefran.com

Gefran Schweiz AG
Steigweg 8, - CH-8355 Aadorf, Schweiz
Tel.: +41 52 523 25 00
Fax: +41(0)52-3661884
Internet: www.gefran.com

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