

QE1008-DU-4USB4- CHANNEL SYSTEM FOR TIE BAR STRAIN
MEASURING WITH DIGITAL MONITOR-BOX**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 (via our *Inspectmate* software)
- 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-box DU-4USB
- USB connection for tie bar adjustment software and power supply
- Very compact and easy to use system

The DU-4USB Monitor is an industrial signal amplifier and monitor for strain gauges and strain sensors. It is connected to the PC via the USB port. The measured values are displayed directly on the PC screen using by the „Inspectmate“ software. 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 4-channel DU-4USB digital monitor box can only be operated in conjunction with a PC.

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*

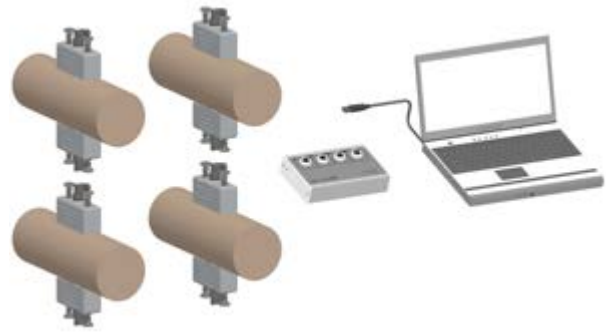
Strain gauge type	Foil (GF = 2.0)
Measuring range	$\pm 800 \mu\epsilon$
Accuracy	$<\pm 0,5\%$ FS
Linearity	$<\pm 0,5\%$ FS
Hysteresis	$<\pm 0,5\%$ FS
Repeatability	$< 0,2\%$ FS
Supply voltage (DU-4USB)	via USB connection
Operating temperatur range	5 bis $+50^{\circ}\text{C}$
Storage temperatur range	0 bis $+50^{\circ}\text{C}$

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

APPLICATION

System containing

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



External dimensions of carrying case	400 x 300 x 200 mm
Weight	approx. 9 kg

The 4-channel DU-4USB digital monitor box can only be operated in conjunction with a PC.

ORDER CODE

4- Channel system for tie bar strain measurement with digital monitor-box

QE1008 - - - - **000**

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

Monitor type	
DU-4USB	4U

Y-Cable lenght	
3 m	03
5 m	05
10 m	10

Example: QE1008 - 08 - 4U - 05

Magnetic-mount strain sensor QE1008 (8 pieces), 4- Channel digital monitor-box DU-4USB, Y-Cable lenght = 5m

ACCESSORIES

Discription		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
Magnetic-mount strain sensor QE1008		QE1008-C	
Repair-Kit Foils		REPAIR-KIT FOIL	F060472