

## Evaluation Electronics – Model 813



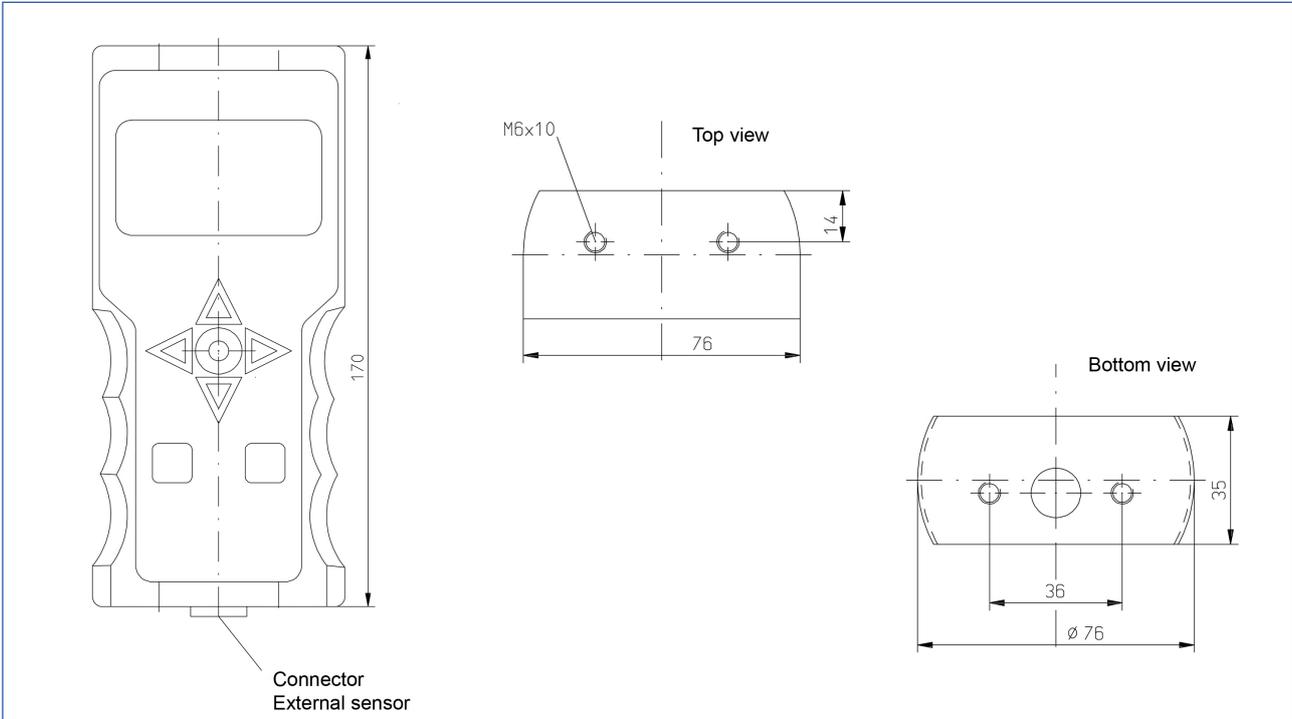
- Measuring frequency: 50Hz - 2kHz, selectable
- 32bit RISC  $\mu$ Processor
- Recording of measured curves
- Data export format .csv (compatible to Excel)
- TEDS compatible

The mobile electronic evaluation units of the model series 813 meet all demands that precise measurement processes require. The evaluation electronics have been designed for use with Test force and torque transducers, but they are also generally suitable for other resistance-based transducers. The mo-

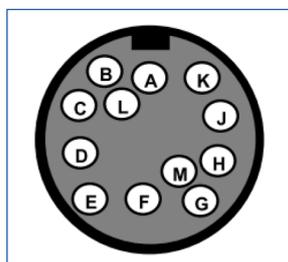
del 813 contains a process-controlled electronic unit with advanced software under Windows CE. Its various functions are adapted to the daily requirements of quality assurance. Online or after use the data can be transferred to a computer via an USB 2.0 interface, for further processing or for storage.

Model 813	
Measuring uncertainty	$\leq \pm 0,05$ % of nominal value
Processor	32bit RISC $\mu$ Prozessor, 128kB Flash
A/D converter	24bit
Analogue force signal output	0...2V DC
Limit signals	2 digital Open Collector Outputs, programmable
Display	+ 7-digit + decimal point + backlit, graphic, 2,8" LCD display with 128x64 pixel
Indicator Resolution	$\pm 50.000$ digits
Power supply	+ 4 customary AA Ni-Mh accumulators + USB charging device + also usable with standard batteries
Operating time	+ $\geq 10$ h without recharging + continuous indication of actual state of charge
Measuring data acquisition	Measuring unit selectable (N, kg, lbs)
Measuring frequency	50...2000Hz, selectable
Data logging	+ 128kB Flash memory + exchangeable SD memory card (2GB)
Data logging frequency	up to 2000Hz for real-time online data logging
Data export (USB)	+ Connection of the dynamometer for use as a streaming client for constant transfer of measuring values to a pc, (with up to 100 Hz) + Recorded values can be exported in csv. format
Illustration of real-time measuring values	via SoftTest, possible under Windows XP/Vista, Windows 7 and 8
Dimensions (HxWxD)	(170 x 75 x 35) mm
Weight	~ 620 g
Housing	Die-cast aluminum housing RAL7035 with recessed grips and 2 M6 mounting holes, both on each front side and on the backside, for flexible installation in load frames

# Evaluation Electronics – Model 813



Model 813 - Possible Options	
For analogue force signal output:	optional 2-point calibration
For displacement or angular measurement:	connection of an incremental input for encoders
Software SoftTesT	for graphic illustration of real-time measuring values



**Female connector: External sensor**  
for Binder connector, 12-pole

Sensor		
A	Output +	(yellow)
B	Excitation +	(red)
C	Output -	(green)
D	Excitation -	(blue)
E	TEDS Data	(white)
L	TEDS GND	(black)
F	Encoder A	(Option)
G	Encoder B	(Option)
H	GND	
J	± 5V DC (± 10%) max. 40mA	
M	+ Out 1	
K	+ Out 2	

Model 813 - Scope of delivery	
Evaluation Electronics	
+	Transportation case
+	USB charging device + cable
+	SD memory card: 2 GB
+	User manual
+	Certificates of conformity