

Portable measuring of torque rotational angle and clamping force on site **SCHATZ® INSPECT**

SCHATZ®
ADVANCED QUALITY



- automatic sensor detection through SCHATZ®AUTOCODE
- complete administration of measuring means
- easy data management and documentation
- graphic analysis of measurements
- large graphic display
- connection of all common sensors via adapter cable

Applications

The micro-processor controlled measuring unit is particularly suitable for the static and dynamic measurement of torque and rotation angle values in combination with torque and rotation angle sensors.

Torque tools, compressed air, electric and impulse drivers can be tested and monitored. Readings and analyses can also be entered manually.

Mains or battery operation and the low weight enable the unit to be operated long-term in a fixed location as well as mobile operation in production and building site areas and during servicing operations.

The measuring unit has all the features necessary for the documentation of statistics (SPC) or brief analyses. For instance, data can be sent via the infra-red interface to a PC.

Description

Data and functions are keyed into the measuring unit and additional data such as model number can be read in using a bar code reader pencil.

For ease of reading the large graphic display shows the readings in large format and additional information such as location names appear in clear text (SPC version)

The correct sensor is selected automatically from the integrated measurement management system. Amongst other information the sensor transmits its serial number. This guarantees complete documentation.

The read out of up to 5,000 readings can be on a PC or printer as desired.

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Technical data				
Model No.	5413-2012 G	5413-2022 G [A]	5413-2012 SPC	5413-2022 SPC [A]
Measuring channels	Analogue (torque)	Analogue/Incremental (torque/rotational angle) [connection for active sensors]	Analogue (torque)	Analogue/Incremental (torque/rotational angle) [connection for active sensors]
Special features	Measurement of average value of friction sequences characteristics (start suppression)		Entry of up to 1000 positions Slave operation with PC dialogue	
	Integrated management of measuring means, SCHATZ@AUTOCOCE, date/time, help text function, password protection, language selection, audible warning signal, release point recognition, automatic saving of graphic sequences for NOK joints and many more.			
Analysis facilities	Printer Mod. 5413-3191, PC software Mod. 5413-6022 and CEUS 8.0, large display			
Input facilities	Calibration value, threshold value, KPIL, dead time, upper/lower limit value, baud rate, unit, language, measuring means data, s-number for statistics			
Further specific input facilities		Coupling torque, angular division, angle peak value, upper/lower limit value	Position no., random sample scope, shift, additional information, password, manual input of measurement data	as for 5413-2012 SPC and 5413-2022 G
Storage capacities	1000 measurements, 500 measurement means, 50 graphic sequences		5000 measurements, 500 measurement means, 1000 sets of parameters, 50 graphic sequences	
Measurement units	Nm, Ncm, kN, kgfcm, ftlb, inlb, (empty)			
Accuracy class (for the whole measurement chain)	0.25 according to DIN 1319 T3 1 according to DIN 51309			
Filter frequency	Adjustable from 1 Hz . . . 4 kHz			
Signal amplifier	DC precision amplifier			
Nominal value	0.5 mV/V . . . 5mV/V			
Sensor connection	120 Ohm . . . 1000 Ohm (Optional active sensors)			
Nominal range of supply voltage	5 V DC			
Supply to angle counter		5 V		5 V
Mains connection	110 V or 230 V, 50 Hz . . . 60 Hz universal power supply with 3 adapter plugs, power pack for battery operation with fast charging, (mains/battery operation)			
Operation/charging time	10h/2h with battery operation			
Keyboard	Membrane keyboard, 21 keys (alpha-numeric)			
Display	Graphic display, 128 x 64 image points, adjustable contrast			

Dimensions/Connection details	
Connection points	Mains adapter: External voltage box 12 Volt
	Sensor: 16 pin ODU 702.121.720.315.016 [12 pin ODU for active sensors]
	Serial interfaces
	RS 232 PC/ext. keyboard: Canon DE-9p-K91
	RS 232 printer: Canon DE-9s-K91
	RS 422: Canon DA-15s-K91
	Barcode: 5 pin ODU 701.011.710.315.005
Additional interfaces	Infra-red
Dimensions L x W x H	180 x 150 x 75 mm
Weight	ca. 1,5 kg
Accessories	Plastic carrying case, power pack, strap Optional extras: barcode reader, impact guard, infra-red sender/receiver unit, printer, Windows-Software

subject to technical alteration