



Screwdriving technology

Automation

Air motors

Air tools

DEPRAG

NEW
Measures directly on
your product

Torque Transducer (external rotary type)

Key Features:

- most modern brushless Strain-Gauge technology
- direct measurement-acquisition on the product >evaluates actual conditions
- non-contact signal transfer
- high accuracy over the entire measuring range
- highly resistant to interference
- maintenance free operation
- compact design

Flexible and Universal – suitable for:

- torque verification of handheld screwdrivers
- torque control of stationary screwdrivers
- verifying a screwdriving process
- suitable for Impulse (Pulse) Tools
- quality control for production and laboratories
- go-, no-go testing of threads on screws, nuts, bolts, gears, etc.



Torque Transducer

When connected to a DEPRAG measuring instrument, this transducer is ideal for torque acquisition and documentation of all acquired results of screw joints and assembly requirements.

During the actual assembly process, performing torque acquisition and screw-joint analysis is possible. This feature fulfills most or all assembly-process requirements and assures even the highest quality demands.

DME200PC-V

The Deprag Measuring Instrument DME200PC-V allows connection to any common PC (Windows 95 or later). This instrument

is designed to process a large amount of data (up to 1,000 measuring values) and it offers high flexibility when processing data, since all relevant values are made available to a PC using an ASCII-format. Commonly available statistics programs may be used to process the data. Additionally, this measuring instrument enables the user to perform a complete chain of joint analysis, since the PC has the necessary cycle data of torque over time. For this option, we offer our curve program, which is included with the standard measuring instrument.

In most cases, operation and sequence correspond with the already well-known measuring instrument DME 200PC (see catalog D 3022E).

ME5000

The compact, handheld measuring instrument ME5000 allows that torque measuring operations can be done right at the assembly location. An integrated battery speeds up the automatic torque acquisition. This feature determines the best possible torque adjustment for a Screwdriver by measuring the torque directly on the product to be assembled.

The standard ME5000 includes a Docking Station, which is needed to recharge the battery. The Docking Station also contains a serial port (RS232) to transfer acquired measuring values to a PC.

The measuring instrument ME5000 can also be connected to the DEPRAG printer ND40.



Technical Data

Transducer (DMS, non-contact)				
type order no.	V002-E6.3/F6.3 385481 B	V005-E6.3/F6.3 385481 C	V010-E6.3/F6.3 385481 D	V020-E6.3/F6.3 385481 E
Measuring range	0.2 - 2 Nm 2 - 18 in.lbs.	0.5 - 5 Nm 4 - 40 in.lbs.	1 - 10 Nm 9 - 88 in.lbs.	2.0 - 20 Nm 18 - 177 in.lbs.
Overload Capacity	100 %	100 %	100 %	30 %
Speed max.	10,000 rpm	10,000 rpm	10,000 rpm	10,000 rpm
Weight approx.	0.3 kg / 0.66 lbs	0.3 kg / 0.66 lbs	0.3 kg / 0.66 lbs	0.3 kg / 0.66 lbs

Required Accessories			
Measuring Instrument for Transducer	type order no.	DME200PC-V 385479 A	ME5000 385484 A
Operating Modes:			
- Peak Torque Display		yes	yes
- Actual Torque Display		yes	no
- Measuring Series w/Statistics X, S		yes (up to 1,000 values)	yes (up to 10 values)
Total Measuring range Nm		see Transducer	see Transducer
Number of Measuring ranges		6	Depends on measuring system (PE, DMS, V)
Display		External through PC-monitor	LC-Display Alpha numeric 4 lines, 16 digits per line
Data Output (for Printer or PC)		ASCII-Data CSV-Data JPG, BMP	9-pole SUB-D RS 232 (9600 Baud)
Transducer Connection		4-pole M12 bushing	8-pole bushing / BNC-bushing
Linearity %		< 1	< 1
Accuracy % FS		< ± 1	< ± 1
Power Supply		Through power supply (AC 230 V - DC 9 V) (AC 115 V - DC 9 V) or PC (DC 5 V)	Battery (internal / rechargeable)
Dimensions (LxHxW) mm		180 x 65 x 125	224 x 106 x 40
inch		7.1 x 2.6 x 4.9	8.8 x 4.2 x 1.6
Weight kg / lbs		1 / 2.2	1 / 2.2
Connector Cable (for Transducer to Measuring Instrument)			
Length 2 m / 6.6'	type order no.	DME200PC-V 2m 385480 A	ME5000-V 2m 385486 A
Length 4 m / 13'	type order no.	DME200PC-V 4m 385480 B	ME5000-V 4m 385486 B
Length 6 m / 20'	type order no.	DME200PC-V 6m 385480 C	ME5000-V 6m 385486 C

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