

Made for Motion



MONITEX® BT

Torque measuring coupling hub

ktr.com

MONITEX® BT 28/200, 42/800, 65/1600 TORQUE MEASURING COUPLING HUB

Examples of application



Machine monitoring



Test bench technology



Process control



Quality assurance

ROTEX® goes digital – MONITEX® BT, the torque-measuring coupling hub

Mounted with a few steps, the new MONITEX® BT is a precise tool for daily measuring tasks in test bench technology. With the help of the apps or the PC software, torques and speed data can be displayed and saved in a matter of seconds.

Thanks to its compact dimensions it can also be used for machine monitoring and process control where integration of measuring shafts with long measuring shafts failed previously.

Through our analogue gateway, torque and speed data can be transmitted directly to the control system or stored in the cloud, ensuring that nothing gets in the way of even the most complex monitoring.

Especially in quality assurance, it is often an advantage to not only save data, but also read them directly for setting purposes. The integrated display of the MONITEX® BT informs the user directly and at any time about the current load on the drive.

MONITEX® BT 28/200, 42/800, 65/1600 TORQUE MEASURING COUPLING HUB

Function

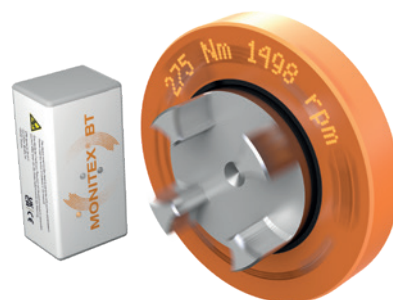


Torque measurement inside the coupling

The new MONITEX® BT measuring coupling has the same features as the ROTEX GS coupling, but is capable of measuring torque and speed. This low-cost coupling hub can be easily replaced even in tight spaces and transfers data to your smartphone or PC without requiring any additional accessories. The optional DAC outputs the data as analogue voltage and current.

Contactless and maintenance-free

Energy is transmitted contactlessly using an inductive power transmitter, enabling continuous operation of the measurement hub. A unique feature of the MONITEX® BT is its display, which shows the current torque and speed data during rotation – instantly and without any data logging.



Analogue outputs

In many cases, the user requires live data to feed into the system control for monitoring or controlling the drive train. The DAC (digital-to-analogue-converter) automatically connects to the MONITEX® BT measuring coupling and outputs the torque and speed data in analogue form as voltage (-10...10V) and current (4...20mA).

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MONITEX® BT App



Data logging included

The current torque and speed data are transmitted by the MONITEX® BT via Bluetooth and can be received, saved and sent using the free MONITEX® BT app on a smartphone, tablet or PC.

The data can be displayed in the app either as a curve progression or as numeric numbers. Minimum, maximum and average figures are continuously calculated. A visual and an audible alarm notify the user when the set threshold values are exceeded or fallen below. For laptops, KTR provides free Windows software that supports sampling rates of up to 500 Hz.



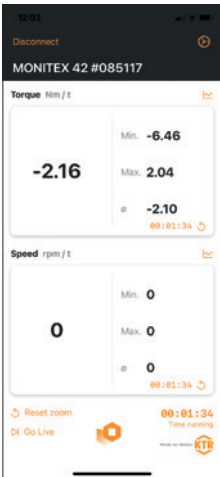
Scan



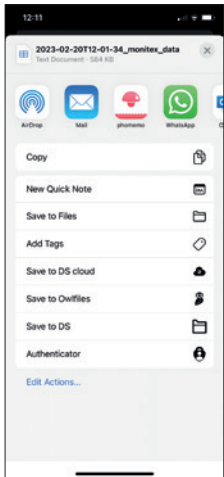
Fairs



Warn



Calculate



Save

Downloads



Google Playstore (Android)



Apple App Store (iOS)



Windows Software

MONITEX® BT 28/200, 42/800, 65/1600

TORQUE MEASURING COUPLING HUB

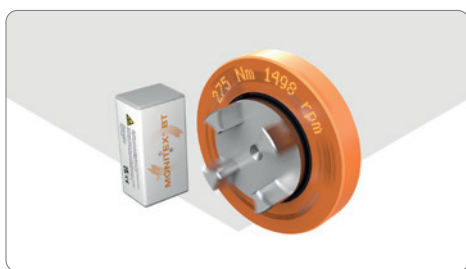
Specifications

Technical data				
MONITEX BT® type	Coupling type	Supply voltage in V ²⁾	Current consumption in mA ²⁾	Operating temperature range in °C
28/200	ROTEX® GS 28	24 ± 4	<200	0 ... 55
42/800	ROTEX® GS 42			
65/1600	ROTEX® GS 65			

Torque measurement					Speed measurement		
MONITEX BT® type	Measuring range TKN in Nm	Inaccuracy in % of TKN	Measuring frequency of app/Windows software in Hz	Influence of temperature ¹⁾ in %/10 °C	Measuring range TKN in 1/min	Resolution in rpm	Measuring frequency of app/Windows software in Hz
28/200	-200 ... +200	±0.25	60 / 500	0.05	30-3500	1	3/5
42/800	-800 ... +800						
65/1600	1600...+1600						

Mechanical data of the coupling hub							
MONITEX BT® type	Static load limit ¹⁾ T _K max in %	Breaking load T _K Bruch ¹⁾ in %	Max. bending torque in Nm	Max. axial force in kN	Weight in kg	Torsion spring stiffness C _T in Nm/rad	Mass moment of inertia in kgmm ²
28/200	150	300	22	8	0.84	46000	765
42/800			86	20	1.72	194000	2690
65/1600			170	32	4.51	460000	12600

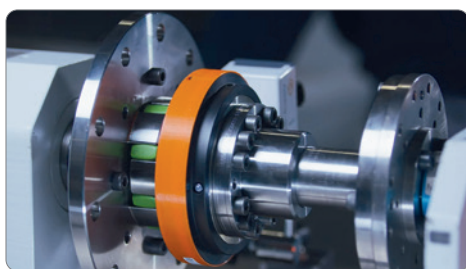
Further information



Product homepage



Questionnaire



Assembly video



Online catalogue Torque measuring technology



3D drawings



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