



## DATA SHEET

<b>Torquemeter MDNFM3 20 – 50 kNm</b>		
<b>rated torque</b> typ. $M_N$	Nm	20.000
<b>maximum rated torque</b> max. $M_N$	Nm	80.000
<b>overload capability torsional shaft, related to <math>M_N</math></b>		$>5 M_N$
<b>rated speed</b> $n_{max}$	$min^{-1}$	3.200
<b>Genauigkeitsklasse</b>		0,1
<b>accuracy incl. Hysteresis and nonlinearity</b> related to rated torque		$< \pm 0,1$
<b>Temperature effect on zero</b> per 20 K related to $M_N$	%	$<0,1$
<b>operating temperature range</b>	$^{\circ}C$	0.. + 70
<b>functional temperature range</b>	$^{\circ}C$	-10 ... +80
<b>TORQUE OUTPUT</b>		
<b>frequency</b>	kHz	$60 \pm 20$
<b>dynamic</b>	kHz	$>1,5$
<b>calibration signal</b>	-	ca. 70% of $M_N$
<b>SPEED OUTPUT</b>		
<b>pulses per rev.</b>	-	300
<b>outputsignal</b> (RS422, TTL)		2 tracks
<b>minimum speed</b> for proper working	$min^{-1}$	$>0$
<b>MECHANICAL DATA</b>		
<b>weight</b> at rated torque	kg	ca. 40
<b>inertia</b>	$gm^2$	—
<b>rotation angle</b> at typ. rated torque	grad	—
<b>torsional stiffness</b>	kNm/rad	—
<b>coupling mass</b> (typ)	kg	—