

MV1054 Digital Torque-, Speed- and Shaft Power Meter

MV 1054 is a modern torque meter based on the latest sensor technology. It comprises a magnetically based contactless torque sensor together with data acquisition and a display unit for torque, speed and shaft power.

The sensor unit consists of a magnetically encoded torsion shaft with a magnetically based contactless sensor, together with a data acquisition unit (integrated with micro controller based shaft power calculation, resolution: 16bits on inputs and 15bits on output = shaft power).

The torque measurement is performed/presented within the range $-17.50\text{Nm} - +17.50\text{Nm}$ with outmost high accuracy (including stand still torque). The speed measurement is performed/presented within the range $-3000-+3000\text{rpm}$ and the shaft power is calculated and presented within the range $-5.50\text{kW} - +5.50\text{kW}$.



MV1054 Sensor Unit (incl data acquisition)



MV1054 Display Unit

Technical data

Nominal torque	$-17.50\text{Nm} - +17.50\text{Nm}$
Max. mechanical torque	25Nm
Nominal shaft power	$-5.50\text{kW} - +5.50\text{kW}$
Nominal speed	$-3000\text{rpm} - +3000\text{rpm}$
Tacho feedback output	14VDC/1000rpm
Data acquisition protocol	Modbus RTU 8N1
Baud Rate	9600kB/19200kB
Power supply	220-240VAC
	1-phase, 50-60Hz

Dimensions / Weight

Display Unit	
L x W x H	340x250x150mm
Weight	5kg
Sensor Unit	
L x W x H	200x190x146mm
Length of mounting plate	200mm
Length incl couplings	170mm
Length incl shaft cover	250mm
Shaft height (to center)	162mm
Weight	5kg