

Model 3410

Torque Display

FEATURES

- For use with all Magtrol TM / TMHS / TMB In-Line Torque Transducers and TF Torque Flange Sensors
- High Quality, Easy-to-Read Vacuum Fluorescent Readout: Displays torque, speed and power
- Adjustable English, Metric and SI Torque Units
- Isolated RS-232 Interface
- Torque and Speed Outputs
- BITE: Built-In Test Equipment
- Overload Indication
- Tare Function
- Closed Box Calibration
- Includes Magtrol Torque 1.0 Software



DESCRIPTION

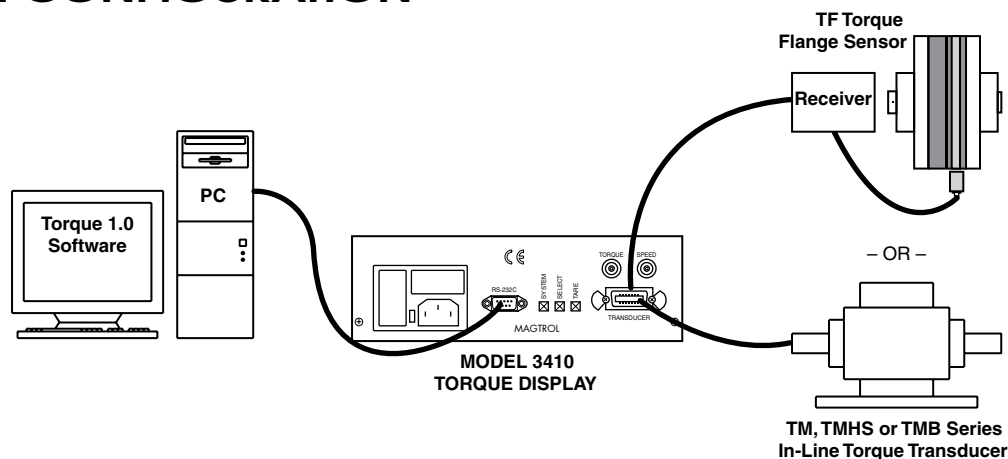
Magtrol's Model 3410 Torque Display is designed for use with all TM, TMHS, TMB and TF Torque Transducers. This easy-to-use device powers the transducer and utilizes high speed Digital Signal Processing (DSP) to display torque, speed and mechanical power. It includes a tare function to help offset any slight residuals caused by couplings or suspended loads. The 3410 may also be used with sensors requiring 24 VDC power (400 mA max.) and have ± 5 VDC torque output (± 10 VDC max.) and 3.3 VHC speed output.

TORQUE 1.0 SOFTWARE

Magtrol's Torque 1.0 Software is a user-friendly Windows[®] executable program, used to automatically collect torque, speed and mechanical power data. The data can be printed, displayed graphically or quickly saved as a Microsoft[®] Excel spreadsheet. Standard features of Torque 1.0 include:

- Measured Parameter vs. Time
- Adjustable Sampling Rates
- Polynomial Curve Fitting
- Peak Torque Capture
- Direction of Rotation
- Multi-Axes Graphing
- Optional USB Interface: for reading up to 4 thermocouples

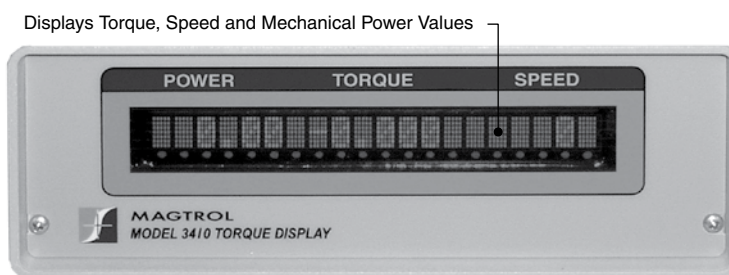
SYSTEM CONFIGURATION



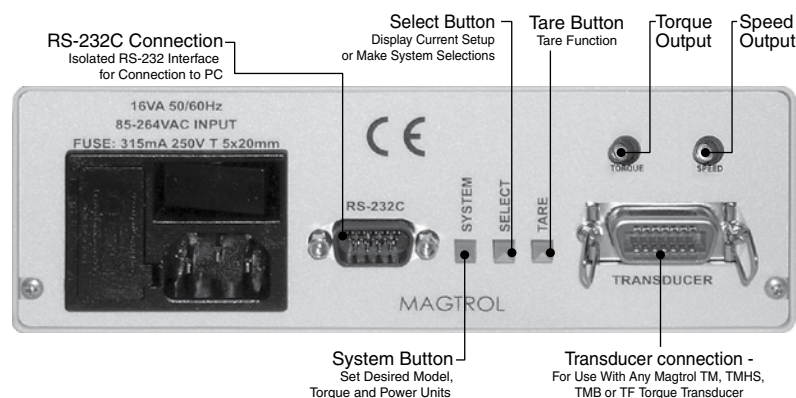
MEASUREMENT CHARACTERISTICS	
Maximum Speed / Input Frequency	99,999 rpm / 99,999 Hz
Accuracy	Speed: 0.01% of reading from 5 rpm to 100,000 rpm Torque: 0.01% of range (± 5 V)
ELECTRICAL CHARACTERISTICS	
Fuses (5 x 20 mm)	IEC 500 mA 250 V T
Power Requirements	30 VA
Voltage Requirements	120/240 V 60/50 Hz
INPUTS AND OUTPUTS	
Maximum Torque Input	± 10 VDC
Torque Output BNC	± 10 VDC (direct from transducer)
Speed Output BNC	3.3 VHC pulse (buffered from transducer)

ENVIRONMENT		
Operating Temperature	5 °C to 40 °C	
Relative Humidity	< 80%	
Temperature Coefficient	0.001% (5 °C to 50 °C) of FS/°C	
DIMENSIONS		
Width	9.88 in	251 mm
Height	2.80 in	71 mm
Depth	7.49 in	190 mm
Weight	2.85 lb	1.28 kg

FRONT PANEL



REAR PANEL



ACCESSORIES

Description	Model/Part #
TM / TMHS / TMB In-Line Torque Transducer Connector Cable, 5 m	ER 113-01
TM / TMHS / TMB In-Line Torque Transducer Connector Cable, 10 m	ER 113-02
TM / TMHS / TMB In-Line Torque Transducer Connector Cable, 20m	ER 113-03
TF Flange Torque Transducer Connector Cable, 5 m	ER 116-01
TF Flange Torque Transducer Connector Cable, 10 m	ER 116-02
TF Flange Torque Transducer Connector Cable, 20m	ER 116-03

Due to the continual development of our products, we reserve the right to modify specifications without forewarning.



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