

## MonoDAQ-E-gMeter

A data acquisition device with embedded triaxial MEMS accelerometer, analog-to-digital conversion and EtherCAT interface based on the MonoDAQ EtherCAT platform ([www.monodaq.com](http://www.monodaq.com)).



Specifications of the MEMS accelerometer:

	Min.	Typ.	Max.	Unit
<b>Measurement ranges</b>	+2		+8	g
<b>-3 dB bandwidth</b>		1000		Hz
<b>Noise density (+2 g)</b>		25		ug√Hz
<b>Offset error</b>	-75	+25	+75	mg
<b>Offset temp. drift (-40...125 degC)</b>	-0.15	+0.02	0.15	mg/C
<b>Sensitivity temp. drift (-40...125 degC)</b>		+0.01		%/degC
<b>Linearity error -1g ... +1g range</b>		0.1		% FS
<b>Crossaxis sensitivity</b>	-1		+1	%

Specifications of the MonoDAQ-E-gMeter device:

<b>Digital interface</b>	EtherCAT
<b>Interface connectors</b>	RJ45
<b>Power consumption</b>	1300 mW
<b>Supply voltage</b>	12-48 V
<b>Operating temperature</b>	-20 ... 60 degC
<b>IP rating</b>	IP20

**Software support:** DEWESoft X3, any standard EtherCAT master

**Installation:** Devices are daisy chained with a standard network cable. It is recommended that the cable is shielded (SFTP, CAT5e) and has a minimum 24 AWG wire thickness. The cable must have 4 wire pairs. The maximum distance node-to-node is 50 m.

Power supply: Passive PoE power injector is necessary for merging the EtherCAT signal and power into a single cable.

Power supply voltage	Cable length device-to-device	Cable size	Max. number of devices from a single power supply
24 V	1 m	AWG 24	8
24 V	50 m	AWG 24	4
48 V	1 m	AWG 24	12
48 V	50 m	AWG 24	10

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