

## EMGZ 306A Series Tension Measuring Amplifier

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**No programming required**

**Easy to setup**

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**Standardised analog outputs**

**Multiconnectable with PLC, Display etc.**

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**Galvanically isolated**

**Protected against electrical noise**

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**DIN rail mount**

**Easy to mount in cabinet**

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**Utilises SMT Hybrid Technology**

**Durability and Stability**

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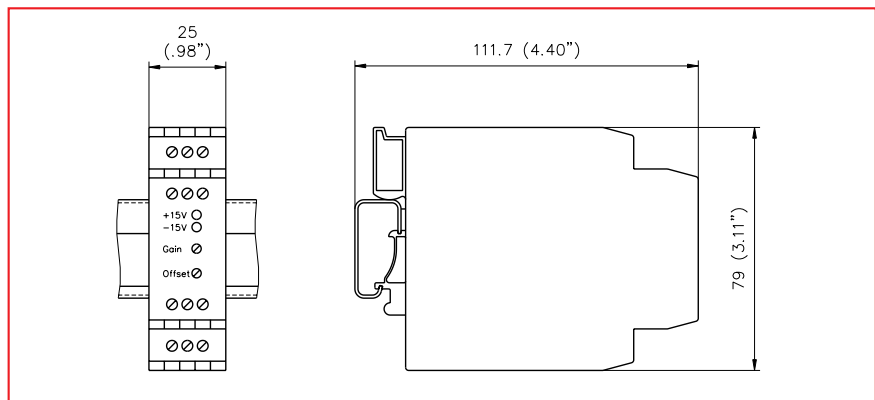


● **EMGZ 306A Series**

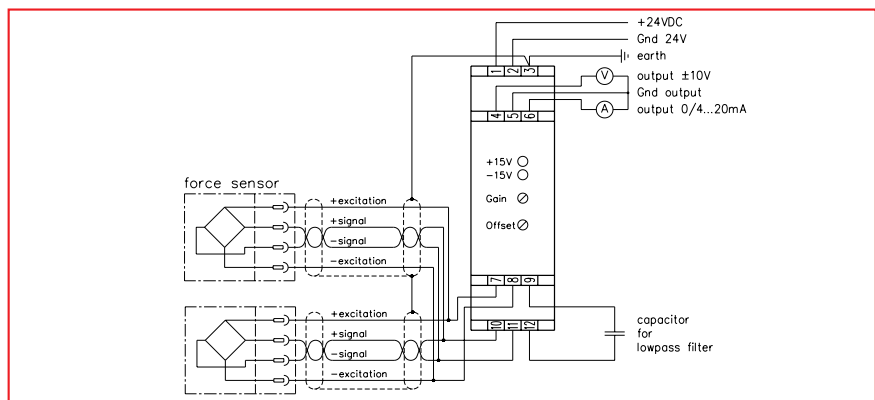
The EMGZ 306A Series is a single channel analog Tension Measuring Amplifier based on a hybrid circuit. There can be 2 force sensors connected. All settings are done with 10-turn trimmers which are easily accessible from the front. Additional jumpers allow the system to operate with fixed gain and offset (when operating with PLC or PC). For filtering of the output signals capacitors can be added.

As options 10 VDC sensor supply voltage (order code EMGZ306A/10V) and compound-filled versions with additional vibration protection (order code EMGZ306A.581820) are available. The compound-filled version is used for rotating applications such as stranding machines, etc.

**EMGZ 306A Series • Dimensions in mm [inch]**



**EMGZ 306A Series • Wiring diagram**



**EMGZ 306A Series • Technical Data**

<b>Sensor supply voltage</b>	5VDC ± 11 ppm/°F [ $\pm 20$ ppm/K] max. 30 mA
<b>Offset range</b>	±9 mV
<b>Gain factor range</b>	500...5000
<b>Linearity error</b>	< 0.1 %
<b>Temperature drift offset</b>	< 28 ppm/°F [50 ppm/K]
<b>Tension output</b>	±10 V min. 1000 Ω
<b>Current output</b>	0/4...20 mA max. 500 Ω
<b>Lowpass cut-off frequency</b>	adjustable, ca. 1...1000 Hz
<b>Power supply</b>	24 VDC (18...36 VDC) max. 0.1 A, galvanically isolated
<b>Power consumption</b>	max. 2.5 W
<b>Temperature range</b>	14...140°F [-10...+60 °C]
<b>Protection class</b>	IP 20

**World Headquarters:**

**FMS Force Measuring Systems AG**  
 Aspstrasse 6  
 8154 Oberglatt (Switzerland)  
 Tel. ++ 41 1 852 80 80  
 Fax ++ 41 1 850 60 06  
 info@fms-technology.com

**FMS USA, Inc.**  
 925 East Rand Road · Suite 207  
 Arlington Heights, IL 60004  
 Phone 847 392 7872  
 Fax 847 392 7873  
 fmsusa@fms-technology.com

**FMS UK**  
 Highfield, Atch Lench Road  
 Church Lench  
 Evesham WR 11 4UG  
 Phone ++ 44 1386 871023  
 Fax ++ 44 1386 871021  
 fmsuk@fms-technology.com