

FMS Tension Control / Amplifiers

EMGZ 310.ComACT Digital Tension Measuring Amplifier with Optional Operation via FMS ComACT™ App

- **Digital microprocessor controlled:**
High performance at fastest speeds
- **Easy and simple operation via smartphone or tablet as option:**
Free download of FMS ComACT™ for Android and IOS devices
- **Best visibility of measuring results and quick configuration:**
Even with limited access to the electrical cabinet
- **Standardized analog outputs:**
Easy connectivity with your PLC



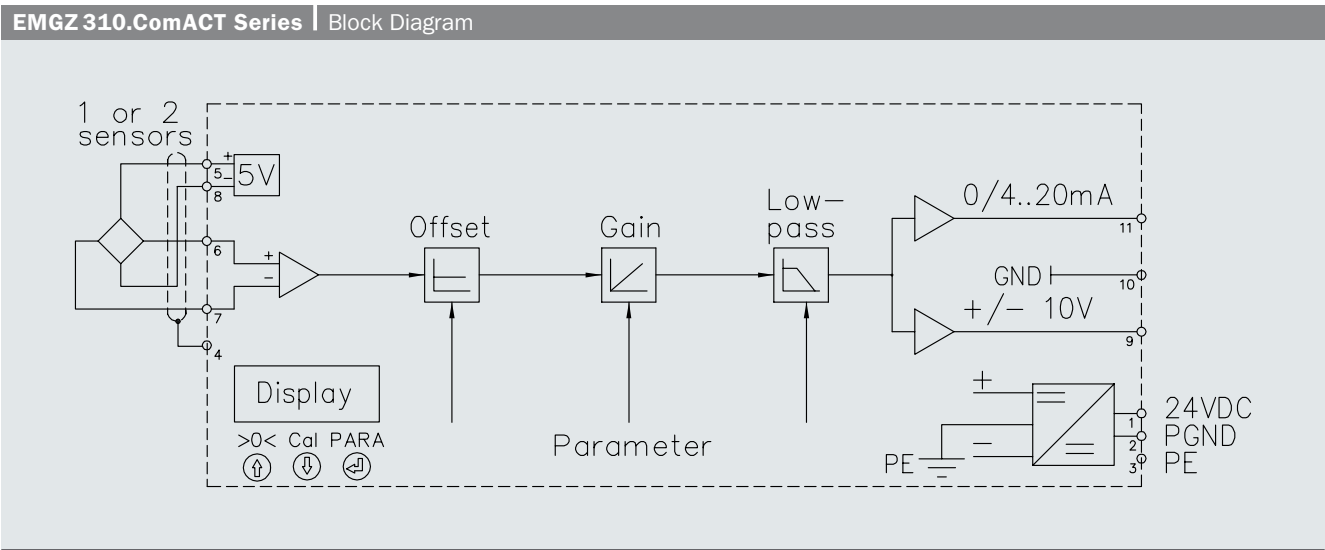
EMGZ 310.ComACT Series

The digital tension measuring amplifier EMGZ 310.ComACT is suitable for tension measurement with all FMS force sensors. This versatile product includes the latest technology and can substitute for all single channel amplifiers (1 measuring point, 1 or 2 force sensors). Amplifier configuration is straightforward with the parameters being set using either three easily accessible keys or your smartphone/tablet.

The free FMS ComACT™ app is available for download for IOS and Android devices, and makes parameter setting and value reading as efficient and comfortable as never before.

Functional Description

The mV signal generated by the force sensors is amplified and then provided directly to a high resolution A/D-converter. Both voltage and current outputs are provided as standard. Functions like signal filtering, automatic offset compensation, and gain calculation are all part of the versatility of the EMGZ 310.ComACT digital amplifier. For easy exchange of the amplifier, you can quickly remove the screw terminal blocks from the unit without the need for special tools.



EMGZ 310.ComACT Series Technical Data	
Number of channels	1 channel for 1 or 2 sensors @ 350 Ω
Sensor excitation	5 VDC; max. 30 mA; high precision
Linearity error	< 0.1 %
Processor cycle time	1 ms
Operation / parameter setting	3 keys, 4-digit LCD display (alpha-numeric)
Resolution A/D converter	± 8192 digit (14 bit)
Voltage output	± 10 V; min. 1.0 kΩ (12 bit)
Current output	0/4...20 mA; max. 500 Ω (12 bit)
Power supply	24 VDC (18...36 VDC); max. 0.2 A
Power consumption	max. 3.0 W
Temperature range	0...+50 °C (32...122 °F)
Protection class	IP 20
Special functions	Operation via 3 keys and display of the values via integrated LCD, optional via FMS ComACT™ app on your smartphone or tablet.

