

## EMGZ 309 .EIP Measuring Amplifier with EtherNet/IP Interface

### Integrated EtherNet/IP Field Bus

Straightforward integration in EtherNet network, possibility of real time control over the field bus

### Plug & play or utilize EtherNet/IP Bus

Fast set-up or full utilization of extended parameter set

### Three housing / mounting options

DIN Rail, Wall Mount (IP65), and panel mount

### Polyvalent and powerful

Quick change-over of manufacturing processes, continues monitoring of relevant production parameters



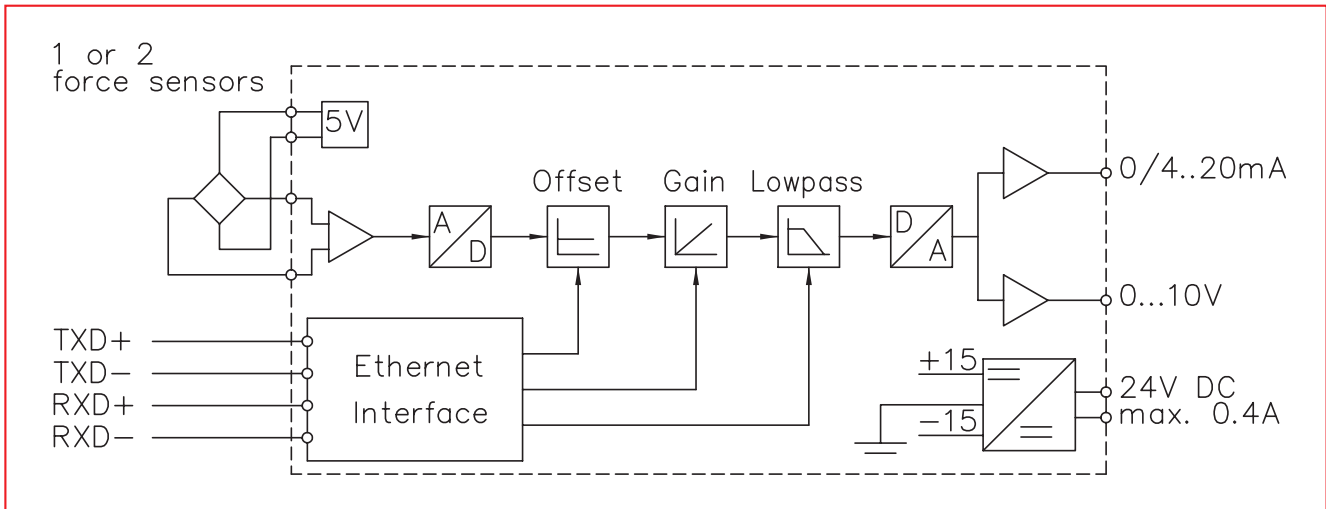
#### ● EMGZ 309.EIP Series

EMGZ309.EIP amplifiers are an innovative enhancement of the successful EMGZ309 series. They are available with a built-in field bus based on EtherNet/IP technology (CIPTM Common Industrial Protocol IEC61158). The EtherNet/IP bus offers data transfer with cycle times of  $\geq 2$ ms. The fast data rates enable real time tension control over the bus. The enhanced connectivity and high data speed capability of this amplifier series along with all the other features create a flexible and powerful tension measuring system.

#### ● Functional description

The mV signals generated by the force sensors are amplified and conditioned in the EMGZ309.EIP amplifier. The whole signal processing is fully digitised. Data is transferred via the EtherNet/IP bus to a central machine control or PLC where data processing and application dependent calculations are carried out. The EIP interface provides an efficient integration and configuration of the tension amplifiers in a EtherNet network.

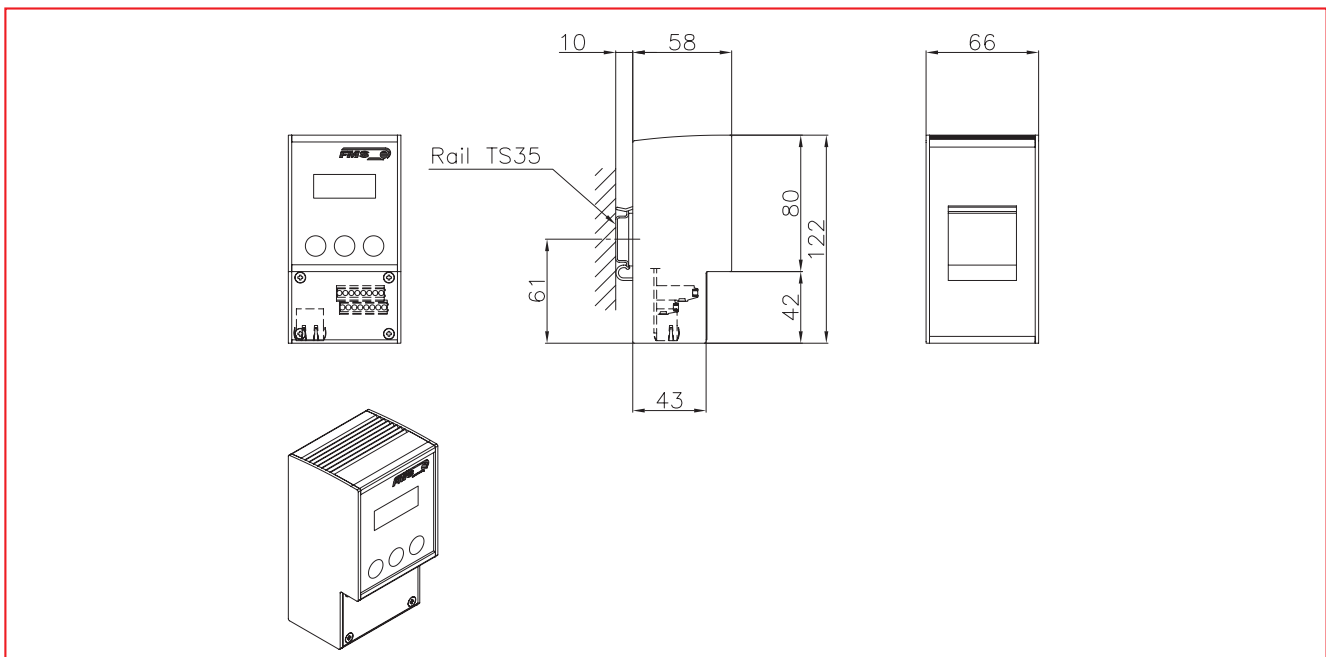
**EMGZ 309.EIP Series • Block diagram**



**EMGZ 309.EIP • Technical data**

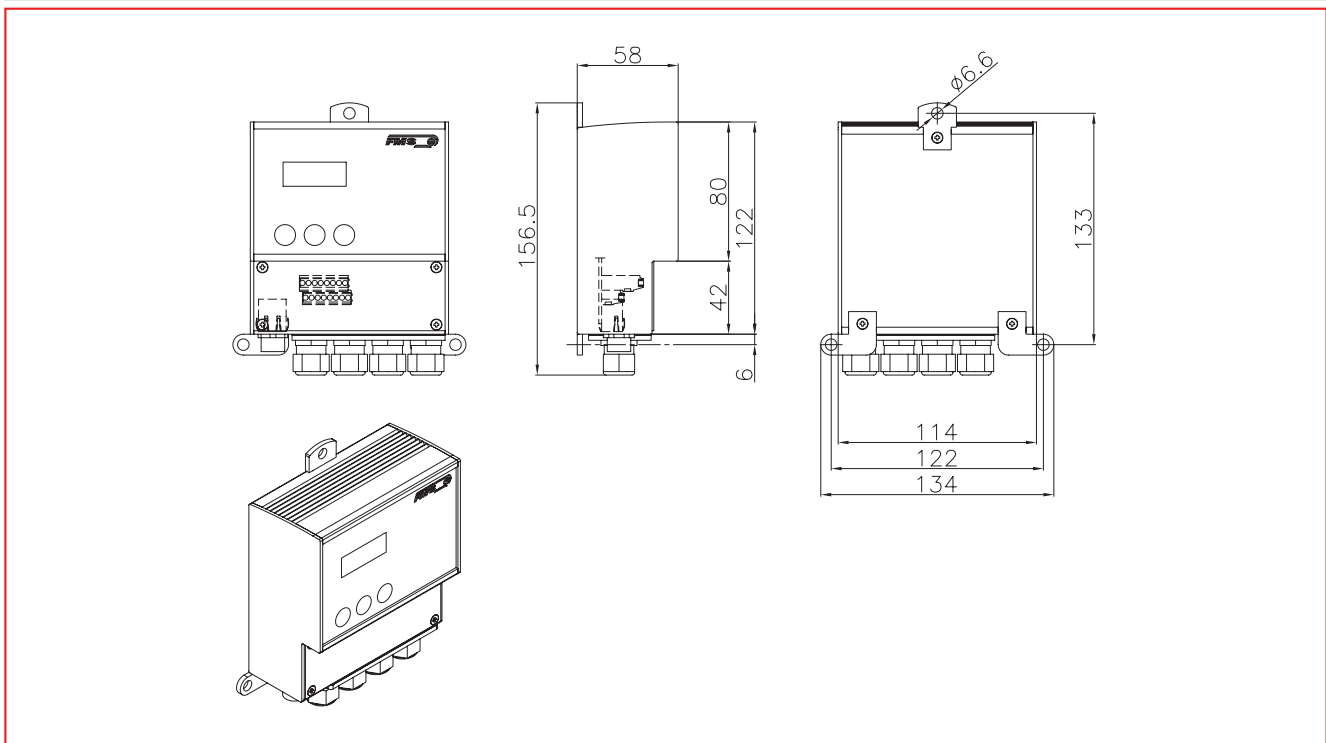
<b>Channels</b>	1
<b>Force sensors</b>	1 or 2 @ 350Ω
<b>Sensor supply voltage</b>	5VDC max. 60mA, high stability
<b>Input signal</b>	0...9 mV (max. 12.5 mV)
<b>Resolution A / D converter</b>	± 8192 Digit (14 Bit)
<b>Max. measuring error</b>	< 0.05 % FS
<b>Processor cycle time</b>	2 ms
<b>Operation interface</b>	EtherNet/IP (CIPTM Common Industrial Protocol, Standard IEC61158)
<b>Analogue output</b>	0...10 VDC min. 1.2kΩ und 0/4...20mA max. 500Ω
<b>Power supply</b>	24 VDC (18...36 VDC)
<b>Temperature range</b>	-10...60 °C
<b>Protection class</b>	EMGZ 309.W.EIP (IP 65); EMGZ309.R.EIP and EMGZ309.S.EIP (IP 40)

**EMGZ 309.R.EIP Rail Mount Housing • Dimensions in mm**



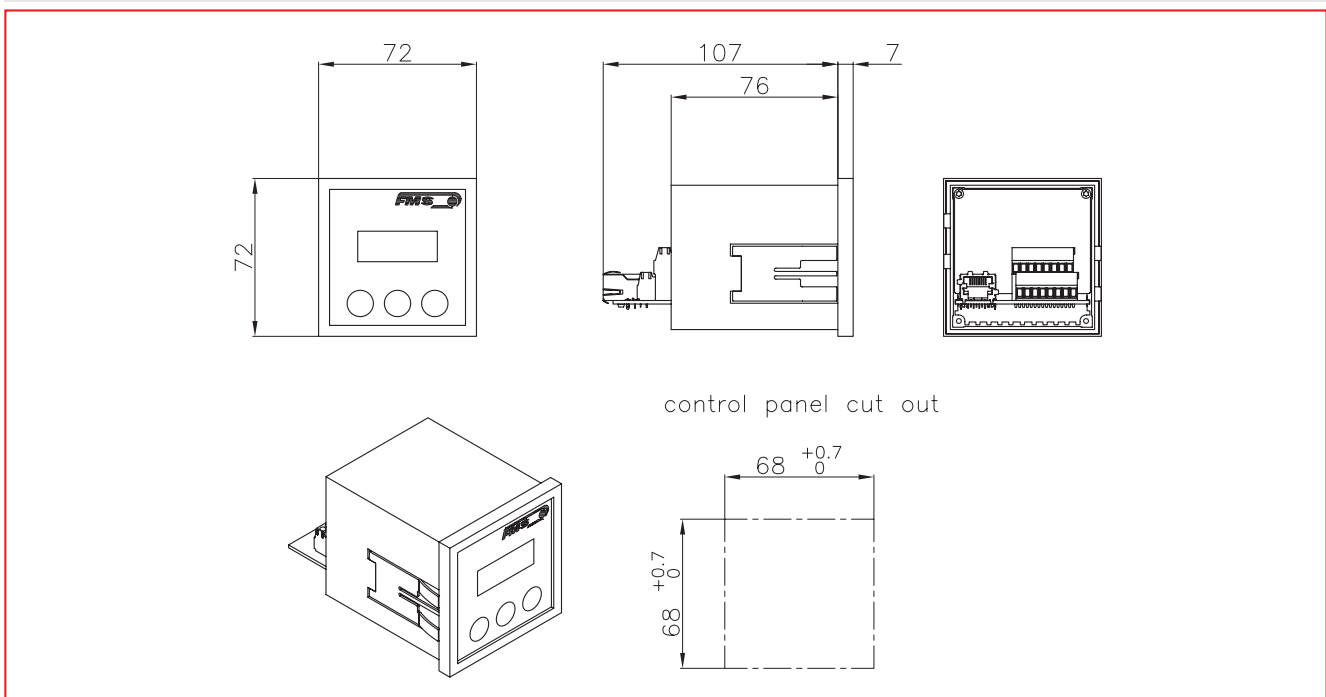
Wiring is realised via cable terminals; EtherNet connection: RJ-45 connector

**EMGZ 309.W.EIP Wall Mount Housing • Dimensions in mm**



With PG-Gland cable connector; EtherNet: M12 4-Pol D-coded connector (IP65)

**EMGZ 309.S.EIP Panel Mount Housing • Dimensions in mm**



Wiring is realised via cable terminals; EtherNet: RJ-45 connector



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