Short description measuring amplifier EAM01

The TEQFORT GmbH develop, produce and marketed on strain gauge based sensors for force and torque measuring as well as the required electronic. The name TEQFORT represent for - Test Equipment Force Torque - and for quality at high and highest precision.

The amplifier of the model range EAM01 is a measuring amplifier with up to 8 independent 24 bits strain gauge channels as well with additional in- and outputs for further devices and regulating tasks. It is suitable for industrial use as well as for the high requirements of the proving and test technic. The EAM01 is equipped with a touchscreen and handles measuring tasks where limit value monitoring and angle corrections are required also.

- Accuracy 0,01%
- 8 DMS channels at 4-wire technique
  2 DMS channels at 6-wire technique, more channels in progress
- Max. 8 fast (max. 1ms) relay outputs, e.g. for switch-off functions when limit value is exceeded
- DIN rail mounting
- 4 and 6 wire technique

Technical Data

EAM01		
Accuracy	%	0,01
Reproducibility	%	0,005
Linearity error	%	0,005
Temperature drift	%	0,0005 (6-wire technique) 0,0035 (4-wire technique)
Sampling rate	*Hz*	1925
Resolution		16 bits
Nominal temp. range	°C	0 - 60
Service temperature without condensation	°C	-10 - 70
Protection class *EN 60529*		IP 20 without housing installation
Pluggable connection		AWG 22-12
Sensor type		Full bridge strain gauge
Connection		4 and 6 wire technique
Bridge resistor	*Ω at 5 V*	31,25 Ω – 5000 Ω
Power supply Sensor	*VDC*	5, 10
Max. current	*mA*	160 per channel
Supply voltage		24 V DC (18 – 36 V) ±10 %
Dimension inclusive clamps	*mm*	205 x 160 x 125
Weight	*kg*	1,35

Options

Max. 8 analogue Inputs ±10V for diverse sensors like displacement, temperature, etc. and further regulating tasks

Max. 8 analogue Outputs ±10V DC for further processing (iba-system) or for measured value acquisition and analysis

Up to 8 current outputs

EX-protection version

Customized presets

Version for Strain gauge transducer with supply voltage of 10 V DC

ProfiNet / EtherNet / EtherCAT / CC-Link

ProfiBus / CANopen / DeviceNet / Modbus-TCP

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