

## Short description measuring amplifier EAD01

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 EAD01 is a measuring amplifier with two 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 proofing and test technic. Measuring tasks, where limit value monitoring and angle corrections are also required, represent its speciality.



- Accuracy 0,01%
- 6 analogue inputs  $\pm 10V$  for diverse regulating tasks
- 4 analogue outputs with 16-bit resolution for further processing (iba-system) or for measured value acquisition and analysis
- 2 fast (max. 1 ms) relay outputs, e.g. for switch-off functions when limit value is exceeded
- DIN rail mounting or front installation
- 4 and 6 wire technique

### Technical Data

EAD01		
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	$\Omega$ at 5 V	31,25 $\Omega$ – 5000 $\Omega$
Power supply Sensor	VDC	5, 10
Max. current	mA	160
Supply voltage		24 V DC (18 – 32 V) $\pm 10$ %
Dimension inclusive clamps	mm	100 x 105 x 110
Weight	kg	0,4

### Options

1 current output at your disposal, or 2 current outputs hard-wired

4-wire- or 6-wire technique

EX-protection version

Front panel with mounting material for front installation

Customized presets

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

230V/50 Hz supply for housing installation