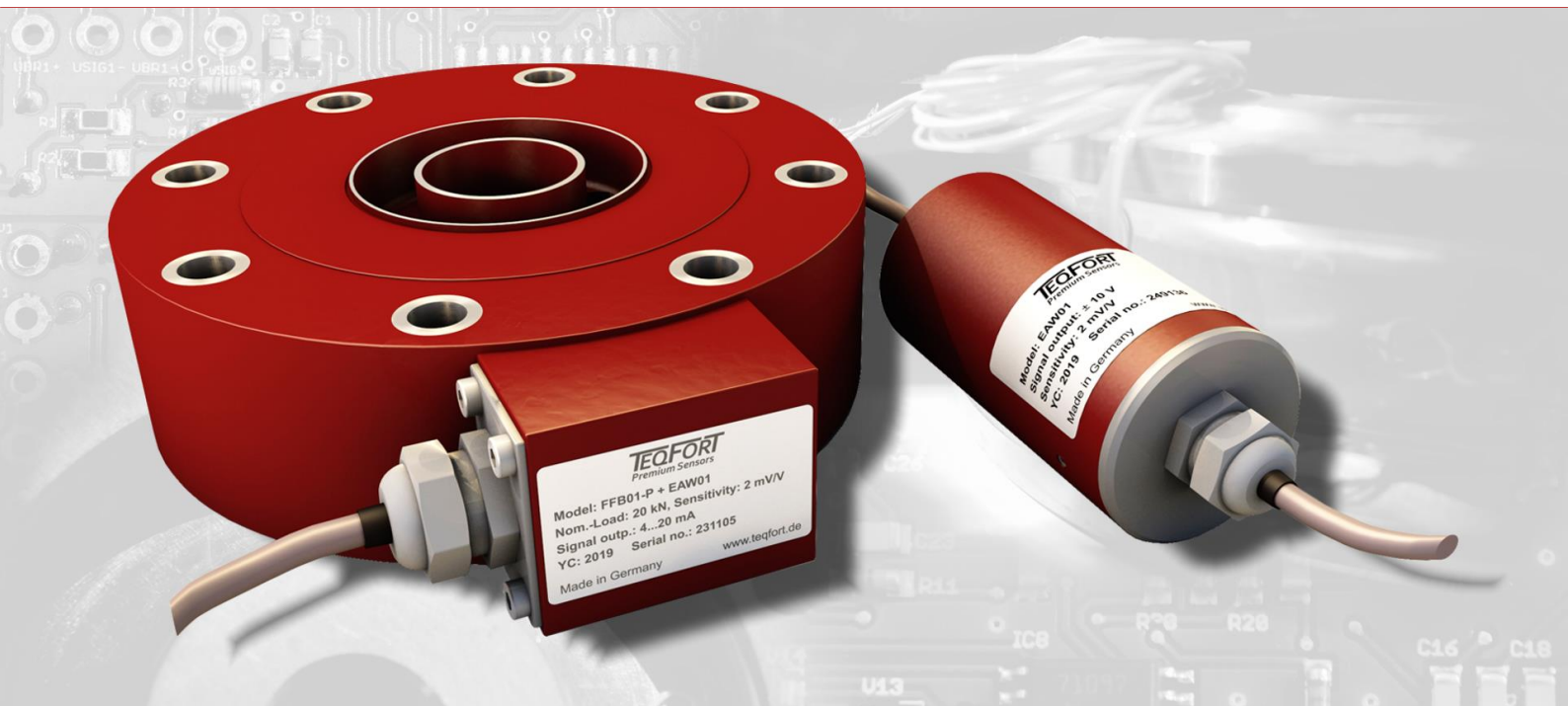


Short description measuring amplifier EAW01

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 strain gauge measuring amplifier of the model range EAW01 is a single-channel system, which can be integrated into a measuring line or installed directly in the transducer connection housing. The EAW01 provides a very accurate and standardized measurement signal for further processing in test systems, machines or in the process technology. Depending on the size of the sensors, integration in the measuring line or on the transducer connection housing is possible and thus available for all sensors from TEQFORT GmbH.



- Accuracy < 0,02%
- Minimal space requirement
- Low wiring effort
- Very good EMC properties
- Hermetically sealed

Short description measuring amplifier EAW01

The amplifier model EAW01 is available in voltage or current output versions. The close proximity to the sensor ensures low-noise amplification and transmission of the signal, especially at the current output. Since the amplifier is characterized by a low current consumption, a heating of the amplifier is avoided and thus also gives a stable signal. In the EAW01 line version, a stainless steel housing provides the necessary protection against damage, and in both versions the inert gas filling prevents condensation at low temperatures. The advantage is a very accurate supply and output signal for further processing, e.g. in controllers or regulating systems.



Option

Version as line amplifier or at the connection housing directly on the sensor

Fixed connection or plug connection at the transducer

Current 4 ... 20 mA or voltage ± 10 V output

Individual cable length at the amplifier and controller side

Technical Data

EAW01		
Accuracy	%	< 0,02
Nonlinearity	%	< 0,02
Bandwidth	Hz	DC – 1000
Sensor type		Strain gauge full bridge
Input resistance	Ω at 5 V	1000 Ω – 5000 Ω
Supply voltage DMS sensor	VDC	4,9 – 5,1, typical 5
Current consumption	mA	ca. 8 + Sensor current
Nominal sensitivity (manufacturer *)	mV/V	0,5 – 150
Temperature drift on zero signal	ppm	4 – 15
Temperature drift amplification	ppm	20 – 51
Nominal temperature range	$^{\circ}$ C	-40 – 85
Storage temperature	$^{\circ}$ C	-40 – 85
At signal output ± 10 V, min. load resistor	Ω	5k
At signal output 4...20 mA, max. load resistor	Ω	1k
Power supply	VDC	14 – 27, typical 24
Housing dimension for line installation $\varnothing \times L$	mm	ca. 28 x 56
Protection class EN 60529	IP	67

*) Factory adjusted to connected sensor

