



MessVerstärker (Measuring amplifier)







Measuring amplifier flexible and robust

- Sensor signal conversion
- For **Multi**MessBox / **Tele**Inspektor® Multi
- Robust metal housing
- High long-term and temperature stability
- For many measurement variables



For all common sensors we manufacture the suitable, computer-controllable measuring amplifiers, which convert the sensor signal for detection or, if necessary, convert it.

Due to the identical housings, they can be installed in the **Multi**MessBOX / the **Tele**Inspektor® and can be exchanged or extended as required. The robust metal housing and the reliable electronics promise a high long-term and temperature stability. A power supply for connected sensors is integrated.



Module overview

Phys	sical Size	MessModule	Supplementary information	Sensortype
-			- Cupplemental y information	- Censor type
<u> </u>	Current AC Current DC	PE11 PE11 / PF 11 / IS11	PE11 = Current measurement RMS value and time curve PF11 = Current measurement time course IS11 = Current measurements via internal or external shunt resistors Voltage measurements 1 1000 mV; 4 adjustable filter stages	IH11 / Mess-Shunt / current probe / hall- and other current - converter
		IL11	Measuring range : 0 / 4 - 20 mA	Current output - for all analog sensors with integrated electronics
(2)	Voltage AC	PE11	PE11 = Voltage measurement RMS value and time curve PF11 = Current measurement with time course	UG11
		PE11 / PF11	DD11 = Converter from single-ended to differential input ± 10 V Differential input range 200 V Input voltage fuse With adjustable sensor supply	
	Current DC	UD11 / UD12 / UD13	UD12 = Converter from single-ended to differential input 6 Measuring ranges (300 mV 100 V) 200 V Input voltage fuse protection 100 V Common-mode voltage 4 filter stages	Voltage signal and for all analog sensors with integrated electronics
			UD13 = Converter from single-ended to differential input 6 Measuring ranges (150 mV 50 V) 200 V Input voltage fuse protection 100 V Common-mode voltage 4 filter stages	
(x _x)	Stretch	GB11	Carrier frequency amplifier for Strain gauge half/full bridges (4-/6-wire technology) Voltage measurements up to 100 mV (in electrometer mode)	Strain gauge
	Torque		DC bridge amplifier for	Strain gauges and inductive torque - sensors
(-	Distance	TF12	Strain gauge half/full bridges (4-/6-wire technology) Voltage measurements up to 100 mV (in electrometer mode)	Inductive (displacement) sensors
	Rotation angle / path	UP11	For potentiometric transducers (angle, displacement, etc.) and active sensors	Potentiometer / inductive sensor
	Pressure / force	GB11	DC bridge amplifier for Strain gauge half/full bridges (4-/6-wire technology) Voltage measurements up to 100 mV (in electrometer mode)	Strain gauge
<u></u>	Acceleration	UC11	For ICP transducers for measuring dynamic quantities	Piezo (ICP / IEPE)
	Speed / Flow rate / Frequency	FA11	For active, passive and inductive frequency / speed sensors	All sensors with Pulse - output
		RT12	For measurements with resistance thermometers	PT 100, PT 500, PT 1000, NI 100, PCT, NCT, KTY,
	Temperature	UT11	For all common thermocouples	Thermocouples e.g. NiCrNi



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