



## DM221 / DM222 Converter for DMS full bridge sensors

### Product features:

- DM222: Connection for two independent DMS full bridge sensors
- DM221: Connection for one independent DMS full bridge sensor
- DM222: Two independent analog current/voltage outputs
- DM221: One independent analog current/voltage output
- Four HTL inputs for triggering different states
- Four HTL outputs for displaying different states
- Transmission of sensor data by RS-485
- Programming by USB
- Supply 18 to 30 VDC

Technical specifications:		
<b>Connections:</b>	Connection type:	Screw terminal, 1,5 mm <sup>2</sup> / AWG 16
<b>Power supply:</b>	Input voltage:	18 ... 30 VDC
	Protection circuit:	Reverse polarity protection
	Ripple:	≤ 10 %
	Consumption:	approx. 50 mA (bei 24 V, unloaded)
<b>DMS supply:</b>	Output voltage:	3-10 VDC
	Output current:	max. 50 mA
<b>DMS inputs:</b>	Number of inputs:	2 with readback (DM222) 1 with readback (DM221)
	Configuration:	voltage
	Sensitivity:	+/- 5mV, +/-10mV, +/-20mV, +/-40mV, +/-80mV
	Resolution:	16 Bit
	Accuracy:	+/- 0.01% / 10K
<b>Analog outputs:</b>	Number of outputs:	2 (DM222) 1 (DM221)
	Voltage:	+/- 10V (external load max. 5kOhm)
	Current:	0/4mA ... 20mA (burden max. 270 Ohm)
	Resolution:	16 Bit
	Accuracy:	+/- 0.01% / 10K
	Reaction time:	Depending on Sampling Time und Filter
<b>Control inputs:</b>	Number of inputs:	4
	Format:	HTL, PNP (Low 0 ... 4 V, High 10 ... 30 V)
	Frequency:	max. 1 kHz
	Reaction Time:	1 ms
	Load:	max. 3mA bei 24VDC
<b>Control outputs:</b>	Number of outputs:	4
	Format / level:	HTL: 17 ... 29 V (depending on supply voltage)
	Output current:	max. 30 mA, High Side Driver
<b>USB:</b>	Version:	USB 2.0 Mini Type B
<b>RS-422:</b>	Version:	2-wire RS-422
	Protocol:	LECOM, MODBUS
<b>Housing:</b>	Material:	Plastic
	Mounting:	35 mm top hat rail (according to EN 60715)
	Dimensions: (B x H x T)	34 x 140 x 118 mm
	Protection class:	IP20
	Weight:	approx. 100 g
<b>Ambient temperature:</b>	Operation:	0 °C ... +60 °C (not condensing)
	Storage:	-25 °C ... +70 °C (not condensing)
<b>Failure rate:</b>	MTBF in years:	59,9 (DM222) 66.5 (DM221) (continuous operation at 60 °C / 140°C)
<b>Conformity &amp; standards:</b>	EMC 2014/30/EU:	EN 61326-1: 2013 for industrial location EN 55011: 2016 + A1: 2017 + A11: 2020 Class A
	RoHS ( II ) 2011/65/EU	
	RoHS (III) 2015/863:	EN IEC 63000: 2018