

Excitation and Amplifier Unit for Strain Gauge-Sensors Type VVE-DMS

- 19"-Plug-In Technique
- Freely Scalable
- Easy Calibration of the Sensors by Control Keys
- Input Sensitivity 0.5...2 mV/V



DESCRIPTION:

VVE-DMS is an excitation and amplifier unit in 19"-plug-in technique. This unit is conceived for sensors on strain gauge-basis for signal processing in accordance with the standard output currents and output voltages.

An easy calibration is possible by the front side control key (if the connected sensor has a calibration control - see data sheet).

The sensitivity of the sensor is selected by the front switch. The fine adjustment of amplification and zero point as well as the input filter is adjustable on the front.

Moreover, 0...±2 V (Dim) output for dimension-equitable adaptation of subsequent display units is available.

TECHNICAL DATA:

Type	VVE-DMS
Art. No.	42304

Evaluation Side

Supply	Supply voltage	230 V AC +15% -6%
Signal Output	Output Signal	±10 V ≤5 mA
	Gain Drift	<0.05%/10 K
	Zero Point Drift	<0.05%/10 K
	Ripple	<20 mV
	Common Mode Suppression	>100 dB
	Control	Yes

Sensor Side

Excitation	Excitation Voltage for Sensor	10 V DC (5 V internally adjustable), stabilized
	Excitation Current for Sensor	≤150 mA
Signal Input	Input Voltage	0.5...2 mV/V, adjustable
	Input Resistance	>1000 MΩ
	Input Filter	10 Hz...1 kHz -3dB, adjustable

Miscellaneous

Nominal Temperature Range	+10...+40 °C
Service Temperature Range	0...+60 °C
Storage Temperature Range	-10...+70 °C
Excitation Voltages for more Cards	±15 V / +5 V, stabilized, per card 200 mA
Output Voltage for DVM	0...±2 V RL >500 Ω
Dimensions	3 HE 10 TE 160 mm deep

Options	Art. No.	Function
I4	42725	Output Signal 4...20 mA
I0	42724	Output Signal 0...20 mA
I±	42723	Output Signal 0...±20 mA
I12	42722	Output signal 12±8 mA
EVK	42245	Mounting, Wiring and Calibration