LORENZ MESSTECHNIK GmbH

Type VVE-DR

Excitation and Amplifier Unit for Torque-Sensors

O 19"-Plug-In Technique

- **O** Freely Scaleable
- Easy Calibration of the Sensors by Control Keys
- Signal Input 0...±5 V
 (0...±10 V)



SPECIFICATION:

VVE-DR is an excitation and amplifier unit in 19"-plug-in technique. This unit is conceived for sensors of 5 V or 10 V output for signal processing in accordance with the standard output currents and output voltages. Thus, by a change-over switch, the measuring signal can be amplified by factor 10.

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:

Туре		VVE-DR	
Art. No.		42243	
Evaluation Sid	le		
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	± 15 V / ± 5 V stabilized	
	Excitation Current for Sensor	≤200 mA	
Signal Input	Input Voltage	0±5 V (0±10 V)	
	Input Resistance	10 kΩ	
	Input Filter	10 Hz1 kHz -3 dB, adjustable	
Miscellaneous	;		
Nominal Temperature Range		+10+40 ℃	
Service Temperature Range		0+60 ℃	
Storage Temperature Range		-10+70 ℃	
Excitation Voltages for more Cards		± 15 V / ± 5 V, stabilized,	
		each 200 mA	
Output Voltage for Digital Voltmeter		0±2 V RL >500 Ω	
Dimensions		3 HE 10 TE 160 mm deep	

Options	Art. No.	Function
14	42725	Output Signal 420 mA
10	42724	Output Signal 020 mA
l±	42723	Output Signal 0±20 mA
l12	42722	Output Signal 12±8 mA
EVK	42245	Mounting, Wiring and Calibration