



Weighing Amplifier

Analog Weighing Amplifier for top-hat rail mount

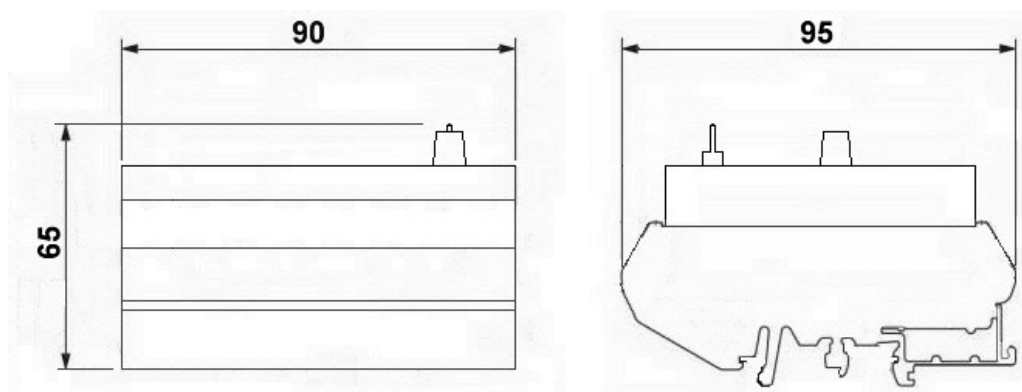
H14



Characteristics:

- LCD display, 2 lines, 8 digits, digit 5mm high
- Internal 24-bit Converter
- Serial Interface RS485 with modbus R.T.U. protocol
- Analog Output 4-20mA or 0-10V (for PLC)
- For top-hat rail mount (DIN)
- Supply Voltage 12-24VDC or 230VAC (with optional power supply unit)

Dimensions:



Dimensions in mm.



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Technical Specifications:

Maximum Resolution	d	65,536
Input Sensitivity	µV/d	0.2
Zero Range	mV/V	7
Analog Input Range / Measuring Range	mV/V	7
Internal Resolution		8,388,608
A/D Converter		24-bit
Sampling Rate	1/s	300
Digital Filter		Adjustable (12,5-300 Measurements)
Display		LCD, 2 lines, 8 digits, 5mm high
Load Cell Connection		4-Wire
Maximum Number of Load Cells		8 (each 350Ω)
Maximum Load Cell Resistance	Ω	35,000
Minimum Load Cell Resistance	Ω	44
Maximum Power Consumption (at 4x350Ω Load Cells)	W	3
Load Cell Excitation	V DC	5 (max. 120mAmps)
Non-Linearity of Measuring Range	%	± 0.01
Temperature Coefficient of Zero Signal per 10K	%	0.005
Temperature Coefficient of Sensitivity per 10K	%	0.005
Supply Voltage	V DC	12 ... 24
Current Consumption	A	0.2
Optional Supply Voltage (Power Supply Unit)	V AC	100 ... 240
- Supply Frequency	Hz	50 ... 60
- Nominal Current	A	0.3 ... 0.1
Outputs / Interfaces		
- Serial Interface RS232 (for Printer/PC)		no
- Serial Interface RS485		yes
- USB Interface		no
- Analog Output 4-20mAmps (for SPS)		yes
Operating Conditions		
- Service Temperature (Storage Temperature)		-20 to +60°C (-30 to +80°C)
- Humidity		<85% RH, not condensing
Dimensions of Housing with Brackett (WxHxD)	mm	95 x 90 x 60
Weight	kg	0.3
Material of Housing		ABS
Protection Class to EN 60 529		IP20

Connections:

Lower Connector					
Load Cell Connection					
1	5	9	13	Parallel	Load Cell Excitation -
2	6	10	14	Parallel	Load Cell Excitation +
3	7	11	15	Parallel	Load Cell Signal -
4	8	12	16	Parallel	Load Cell Signal +
1	5	9	13	Parallel	Screen

Upper Connector – Supply & Outputs		
17	Supply +	(12/24V DC)
18	Supply - / 0 / Screen / Earth	
19	Analog + V	0...10V / 0...5V / -10...+10V / -5...+5V (min. 2kΩ)
20	Analog + mA	0...20mA / 4...20mA (max. 400Ω)
21	Analog -	Common
22	RS485 -	TX- RX-
23	RS485 +	TX+ RX+