

● Characteristics

0620 - LOAD MEASURING - FORCE - OVERLOAD



- Input: up to 2 strain gauge bridges (options available)
- Input sensitivity: 0,1...5 mV/V (strain gauge)
- Sensor supply: 5 VDC (strain gauge)
- Analogue output: 4...20 mA / 0...10 V (options available)
- Voltage supply: 24 VDC $\pm$ 20%
- Resolution: 12 / 14 / 15 / 16 bit
- Combined error: 0,2% of end scale value
- Ingress protection: IP 20
- Taring: with external drive and key
- Interface: RS485, USB
- Enclosure: plastics PA66 GF30 for top hat rail

● Technical Data

Input

Strain gauge:	Amplifier:	up to 2 strain gauge full bridges 350 Ω (summation of signal)
	Sensitivity:	0,1...5 mV/V (programmable)
Standard signal:	Current:	0(4)...20 mA
Option:	Voltage:	0...10 V

Output

Analogue:	0...10 V and 4...20 mA (standard)
Optionen:	0...10 V und 0...20 mA
	2...10 V und 4...20 mA
	2...10 V und 0...20 mA
Current:	load <500 Ω
Voltage:	load resistance 10 k Ω minimum

Interface

Interface 1:	RS485 (configuration and evaluation)
Interface 2:	USB 2.0 (configuration and evaluation), under front cover
	Type: Mini-B port
Optional interface:	currently not available

Accuracy

Resolution:	12 /14 /15 /16 bit (programmable)
at measuring rate:	128 / 32 / 16 / 8 per second
Combined error:	$\pm$ 0,2% of end scale value
Temperature coefficient.:	<50 ppm/K
Measuring rate:	10 ms...5 s (programmable)
Filter:	10 ms...5 s (programmable)

● Applications

The digital measuring amplifier is suitable for nearly all applications where strain gauge sensors are used. It can be adapted easily to local conditions via its interface. Available outputs for further processing are standard signal and RS485.



● Technical Data (Continued)

Power Supply

Voltage:	24 VDC, $\pm 20\%$
Power consumption:	with options approx. 1,5 W
Sensor supply:	5 VDC, 35 mA maximum

Environmental Conditions

Operating temperature:	-10...+60°C
Storing temperature:	-20...+70°C

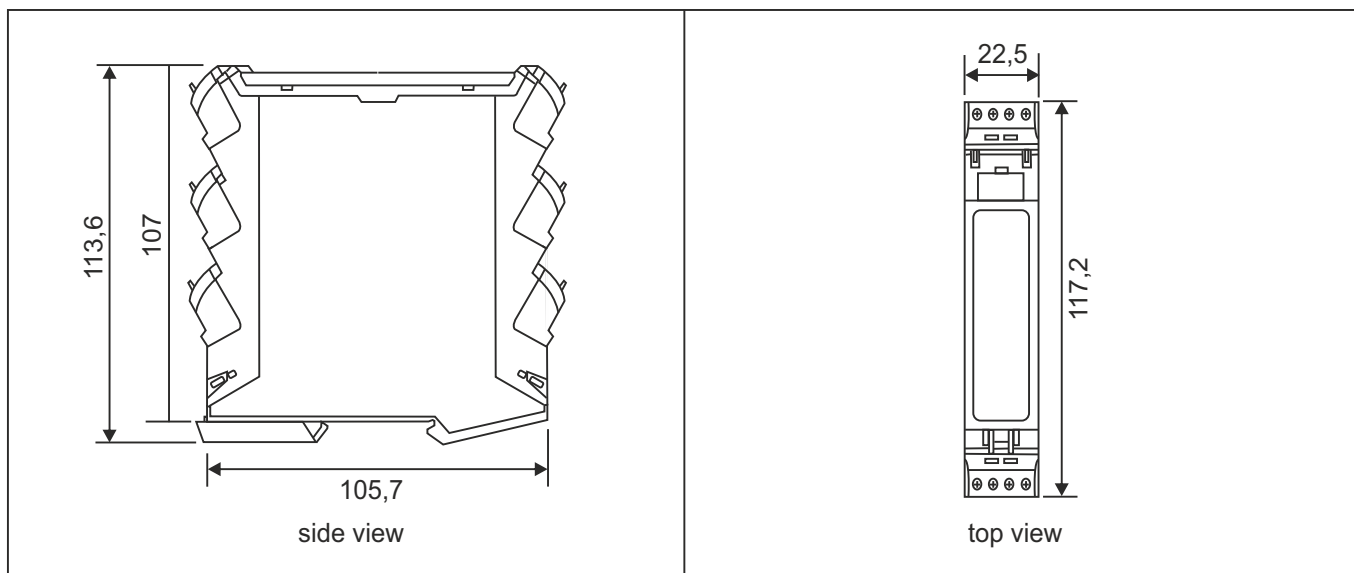
Tare

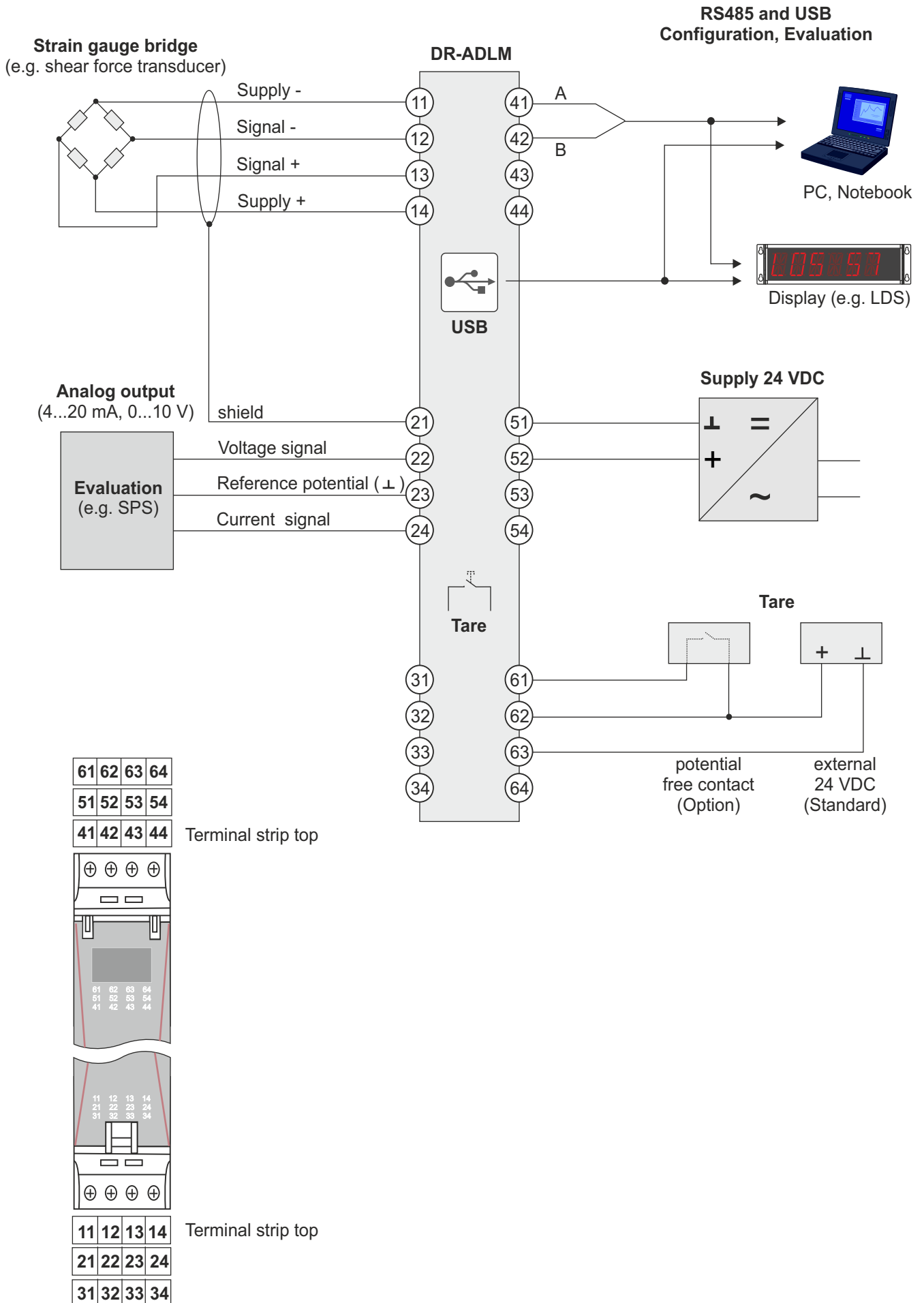
External function:	Active (drive with external 24 VDC) Option: Passive (drive with potential free relay point)
Internal function:	Key under front cover

Mechanics

Case DR 22,5:	
Dimensions:	117,2x22,5x113,6 mm
Material:	PA66 GF30
Color:	black
Flammability:	UL 94 V-0
Mounting:	DIN rail TS 35
Protection:	IP 20
Weight:	approx. 180 g
Electrical connection:	6 plug-in terminal strips 4-pole
Clamping range:	0,13...3,31 mm ²

● Dimensions (in mm)





● **Order Code**

B	D	X	X	X	X	X	X	-	X	X
---	---	---	---	---	---	---	---	---	---	---

Input:	Strain gauge 0,1...5 mV/V 0(4)...20 mA 0...10 V	A 6 4								
Output:	4...20 mA, 0...10 V (standard) 0...20 mA, 2...10 V 4...20 mA, 2...10 V 0...20 mA, 0...10 V	8 9 1 2								
Optional interface:	Without	0								
Tare:	Externally (standard) Internally	0 1								
Supply:	24 VDC	0								
Enclosure:	DR 22,5	C								
Configuration:	Factory setting ¹⁾ Customized (please specify) ²⁾	0 1								
Special model:	No Yes (please specify)	0 1								

1) Factory setting: Sensitivity: 3 mV/V / Resolution: 16 bit / Measuring rate: 5/s / Filter: 1s

2) Possible options are within the limits of technical data as described in this data sheet. If values are not given, factory settings will be used.