

## ● Characteristics

12 - DIGITAL -INTERFACE - BUILT-ON - WIRELESS - FLATPACK

	- Input:	RS485 / radio module 868 MHz
	- Digits:	2, 4, 6, 8, 10, 12, 14, 16 digits
	- Digit height:	57 mm / 100 mm
	- LED segments:	16 red (optionally: green, amber, blue, white)
	- Supply:	24 VDC
	- Range:	-199999...999999 (6 digits)
	- Brightness:	dimmable in several steps
	- Unit:	display / adhesive foil
	- Enclosure:	powder coating white aluminium, several options
	- Protection:	IP 65
- Control:	e.g. with ADLM-NS (info see page 2)	

## ● Technical data

### Display

Number of digits:	2, 4, 6, 8, 10, 12, 14, 16 digits
Digit height:	57 mm, 100 mm
Segments:	16
Colour:	red (optionally: green, amber, blue, white)
Reading distance:	57 mm: 20...25 m 100 mm: 40...50 m
Brightness:	dimmable in 7 steps
Range:	-199999...999999 (for 6 digits)
Representation:	0...9, A...Z, a...z (without umlauts)
Unit:	representation with display (standard) optionally: adhesive foil

### Input

Interface RS485	Protocol:	MODBUS RTU
	Baud rate:	19200
	Cable length:	1000 m maximum
	Devices:	32 maximum
	Termination:	internally
Transceiver radio module:	Frequency:	868 MHz ISM Band
	Range:	up to 300 m (MESH possible)
	Modulation:	FSK
	Power:	3,5 mW
	Data rate:	19,2 kb/s

### Ambient conditions

Operation temperature:	0...+60 °C
Storing temperature:	-20...+80 °C
Relative humidity:	75% annual average, without condensation

## ● Applications

Suitable to display information which have to be read from a distance, such as load indication on crane facilities and mixing plants, price indication or information systems in industrial facilities or public utilities.



Foto: www.pixelquelle.de

Foto: poschle @ pixelio.de

## ● Characteristics (continued)

### Supply

Voltage: 24 VDC  $\pm 10\%$   
Power consumption: maximum 36 W (100 mm, 6 digits, maximum brightness, all segments)

### Mechanics

Enclosure: Material: aluminium  
Colour: powder coated (white aluminium)  
optionally: customized coating, anodized: natural, black  
Mounting: lateral mounting brackets (for use as external or internal angle)

Electrical connection: Male plug: M12x1, 4-pole

Dimensions: for 6 digits display:  
57 mm: 357x100x42,5 mm (with mounting bracket)  
100 mm: 651,5x158,5x42,5 mm (with mounting bracket)

Weight: 57 mm: ca. 0,9 kg (6 digits)  
100 mm: ca. 1,9 kg (6 digits)

Protection: IP65 (plugged electrical connection)

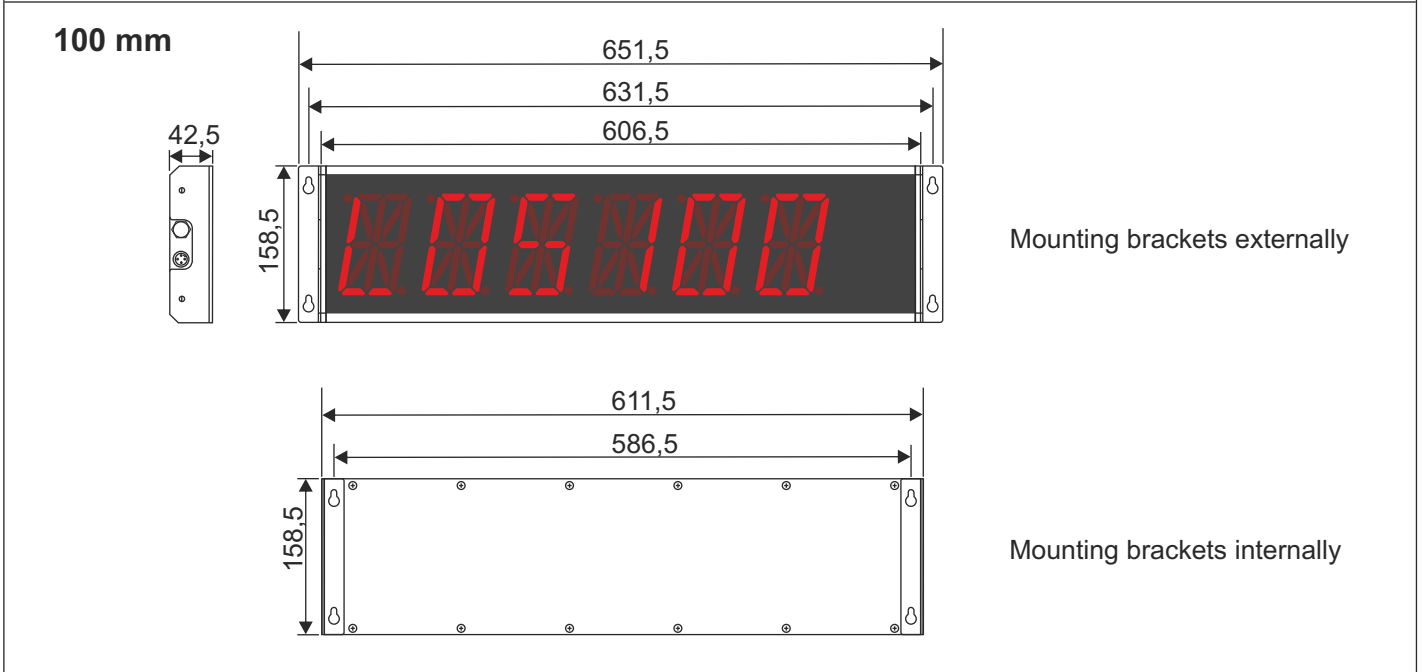
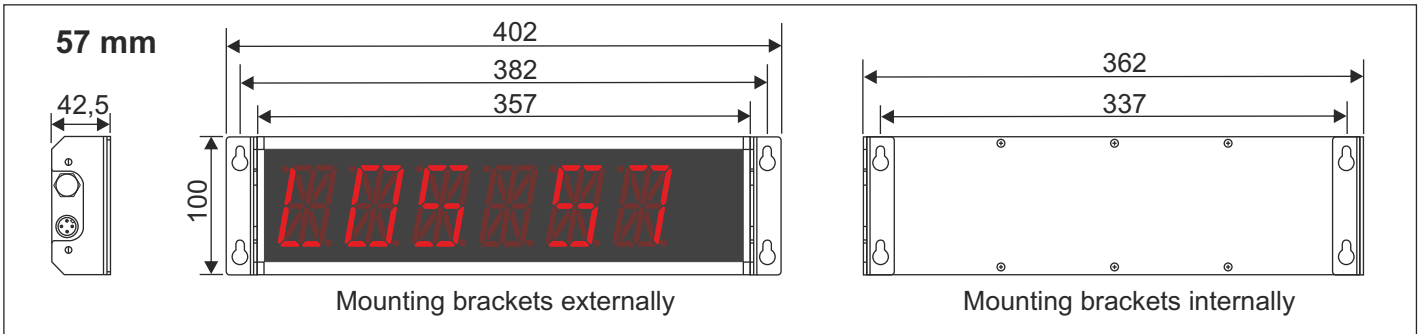
Accessories: weather protection roof (sun, rain)

## ● Drive of display with ADLM-NS



- Input strain gauge: up to 4 strain gauge full bridges (350  $\Omega$ )
- Input standard signal: 4...20 mA / 0...10 V (alternatively)
- Analog output: 4...20 mA / 0...10 V
- Limit contacts: 2 relays (option)
- Voltage supply: 24 VDC
- Voltage output: 24 VDC, 2 A (supply for LDS)
- Interface 1: RS232 for configuration
- Interface 2: RS485 to drive LDS display
- Protection: IP20
- Enclosure: plastics
- Mounting: top hat rail

● **Dimensions (in mm) for version 6 digits**



● **Connection (Example)**

Male plug M12x1, 4-pole		
<p>View:</p>	<p>Voltage supply</p> <p>Pin 1: +24 VDC</p> <p>Pin 3: ⊥</p>	<p>RS485 MODBUS RTU</p> <p>Pin 2: Modbus A</p> <p>Pin 4: Modbus B</p>

● **Order code**

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<b>Digit height:</b>	57 mm	0																		
	100 mm	1																		
<b>Digits:</b>	2 digits	0																		
	4 digits	1																		
	6 digits	2																		
	8 digits	3																		
	10 digits	4																		
	12 digits	5																		
	14 digits	6																		
	16 digits	7																		
<b>Colour display:</b>	red	0																		
	green	1																		
	amber	2																		
	blue	3																		
	white	4																		
<b>Supply:</b>	24 VDC									0										
<b>Colour enclosure:</b>	coating standard (white aluminium)										0									
	other coating (please specify)										1									
	anodized natural										2									
	anodized black										3									
<b>Input:</b>	RS485 (MODBUS RTU)											0								
	ISM-Band radio module 868 MHz											1								
	RS485 (Profibus DP) on request											2								
<b>Unit:</b>	representation with display (standard)																			0
	adhesive foil																			1
<b>Mounting:</b>	mounting brackets (internally/externally)																			0
<b>Other:</b>	special model																			0

<b>Accessories:</b>	
Weather protection roof (Display 100 mm)	Order No.:
Weather protection roof (Display 57 mm)	Order No.: