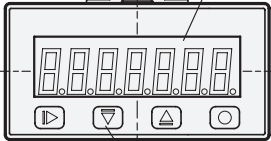
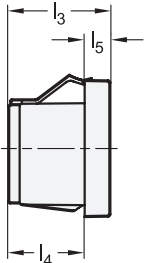


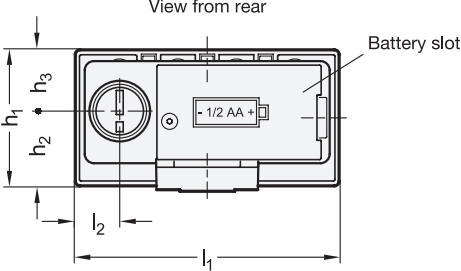
Display



7 digits

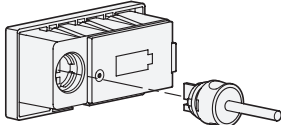
Operating buttons





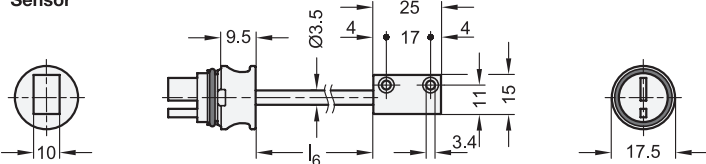
View from rear

Battery slot



Assembly instruction

Sensor



elesta
Original design MPI-R10 / MPI-R10-RF

1

Identification no.

1

Protection class IP 54

2

Protection class IP 67

2

Coding

E

without wireless data transmission

V2

With wireless data transmission, version 2

l ₆ in meters (cable length)					l ₁	l ₂	l ₃	l ₄	l ₅	h ₁	h ₂	h ₃		
0,2	0,3	0,5	0,8	1,2	2	2,5	72	12	28	21	7	37	20,5	16,5

Specification
Housing
Plastic, Polyamid (PA)
• Glass fiber reinforced
• Operating temperature 0 °C to +50 °C
• Black, matte finish
Retaining clip
Plastic, Polyacetal (POM)
Black, matte finish
LCD display
Plastic, Polycarbonate (PC)
Sensor
Zinc die casting, nickel-plated
Cable (Outer sheath)
PVC
Plug
Plastic, Polyamid (PA)
• Glass fiber reinforced
• Black
• O-ring
Acrylonitrile butadiene rubber (NBR)

RoHS	
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Magnetic measuring systems GN 7110 and magnetic bands GN 7110.2 together form a complete system for length and angle measurement. They are suitable for applications requiring frequent adjustments, such as at cutting and trimming stations.

Together with control units GN 9150, the V2 version forms a wireless system for fast positioning. Due to the wireless transmission, no cable is required between the control unit and the measuring system. Format changes can be quickly transmitted from a control station.

Technical Information	Page
Mounting information and electrical data	QVX
Explanations of protection class IP	QVX
Plastic Characteristics	QVX
Accessory	
GN 7110.2 Magnetic Bands	QVX
GN 9150 Control Units	QVX

How to order	1 Identification no.
GN 7110-1-E-1,2	2 Coding
	3 l ₆ (Cable length)

1.4 Adjusting, Positioning, Locking with and without Position Indication

1

Electrical and Mechanical Properties	
Tension feed	Lithium battery 1/2 AA 3,6 V
Battery life	2.5 years
Display	7-digit LCD display, 12 mm high with special character support
Reading scale	-199999; 999999
Number of decimal digits	programmable (see operating instruction)
Units of measure	mm, inch or degrees (programmable)
Max operating speed	1 ... 5 m/s programmable (reading speed affects battery life)
Resolution	0.01 mm / 0,001 in / 0,01°
Precision	± 0.03 mm
Repeatability	0.0002 x L mm (L = value measured in mm)
Self-diagnostic	Battery check, sensor check, magnetic tape check
Reverse voltage protection	Yes
Operating temperature	0 °C ... 50 °C
Operating environment	Internal use
Relative humidity	Max. 95% at 25°C (without condensation)
Frequency range	2,4 GHz ... 2,416 GHz
Compatibility	Magnetic measuring systems and control units can only be combined with each other in the same version.

Configurable Display Options

One advantage of using an electronic positioning device lies in the wide range of display options of the magnetic measuring system.

The following settings can be configured with 4 multifunction keys:

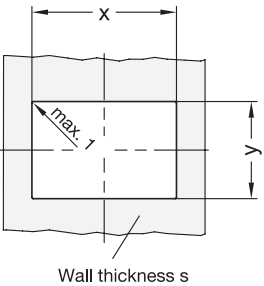
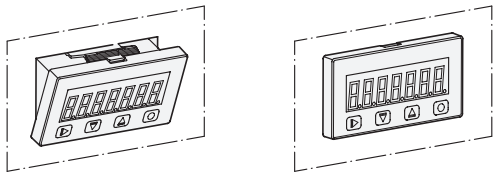
- Selecting incremental or absolute measuring mode
- Changing the unit of measurement (mm, inch or degrees)
- Resetting the counter or setting an offset value
- Storage and display of 32 target positions

The lithium battery is included and has a service life of up to 2.5 years. A display symbol indicates when the battery needs to be replaced. The battery can be easily replaced by removing the rear cover. If the battery is replaced within 10 seconds, the buffer power supply prevents the loss of the configured parameters.

The operating instructions contain further important information and notes. It is part of the scope of delivery and can be downloaded as a PDF at ganternorm.com/service/downloads/operating-instructions as a PDF file.

Assembly Instruction

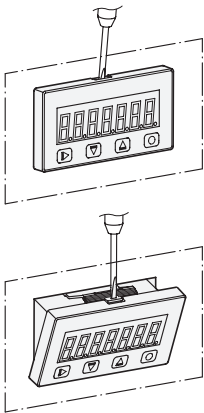
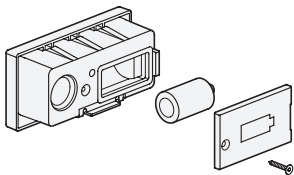
- 1) Please use the dimensions as per the table for the cutout in the housing.
- 2) Deburr the cutout before inserting the display.
- 3) At first, insert the display at the bottom of the opening.
- 4) Then press in the upper part until it snaps completely into place.



Wall thickness s	x +0,2	y -0,5
> 0,7 ... 2	67	34

Battery Replacement Instructions

- 1) Take out the unit by pressing down on the retaining clip at the top of the housing using a slotted screwdriver.
- 2) Remove the screw on the back side of the housing, and take off the cover.
- 3) Replace the battery, taking care to match the polarity correctly (see the position indicated on the cover). If the battery is replaced within 10 seconds, the buffer power supply prevents the loss of the configured parameters.



Application Example

To ensure an accurate measurement, the distance between the sensor and the magnetic band should not exceed 1 mm. The sensor can be mounted using M3 screws.

