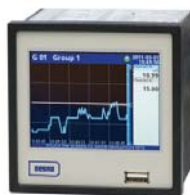


level sensors

Desna Controls Level Sensors

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 Calgary, Alberta, Canada T2G 4C4
sales@desnacontrols.com

TECHNICAL SPECIFICATIONS— LEVEL METER

| | | |
|--|---|---|
| Supply voltage | GRLM-70N-__ GRLM-70Xi-__ GRLM-70Xd-__ | 18 ... 36 V DC 18 ... 30 V DC 18 ... 36 V DC |
| Output | | 4 ... 20 mA, HART® |
| Current consumption | | 4 ... 20 mA / max. 22 mA |
| Basic error ¹⁾ (for reference reflector) - GRLM-70_-20 in area 0,1 – 0,2 m / 0,2 – 2,0 m / 2,0 – 40 m- other types in area 0,1 – 0,2 m / 0,2 – 2,0 m / 2,0 – 40 m | | ± 5 mm / ± 3 mm / ± 2 mm ± 10 mm / ± 4 mm / ± 2 mm |
| Resolution | | 1 mm |
| Maximal length of measuring electrode | GRLM-70_-10 GRLM-70_-11 (12) GRLM-70_-20 GRLM-70_-30 (33, 34, 35) GRLM-70_-32 | 8 m 2 m 3 m 40 m 12 m |
| Dead zone ²⁾ - for measuring sensitivity - low, medium, user (1 - 4) - high, user (5) - user (6, 7) - user (8) | | 100 / 0 mm ³⁾ 150 / 50 mm ³⁾ 200 / 50 mm ³⁾ 250 / 50 mm ³⁾ |
| Electrical parameters for variants Xi (XiT) – max. internal values | | U _i =30 V DC; I _i =132 mA; P _i =0,99W; C _i =370 nF; L _i =0,9 mH |
| Measurement sensitivity (8 degrees) | | low (1) - medium (3) - high (5) - user (1 - 8) |
| Failure indication (echo loss, internal failure) | | Adjustable in modes: 3,75 mA, 4 mA, 20 mA, 22 mA, LAST ⁴⁾ |
| Damping | | 1 .. 99 s |
| Warm up time | | cca 60 s |
| Internal resistance / Electric strength (Electrode - Housing) | | 10 kΩ |
| Coupling capacity / Electric strength (Housing - Supply leads) | | 5 nF / 500 V AC |
| Maximal current output load resistance for | U = 24 V DC U = 22 V DC U = 20 V DC | R _{max} = 270 Ω ⁵⁾ R _{max} = 180 Ω R _{max} = 90 Ω |
| Maximum tensile strength of the rope electrode | | 1400 kg |
| Protection class | | IP67 |
| Process connection | | screwing with thread G1" |
| Recommended cable | | PVC 2 x 0,75 mm ² |
| Weight (without electrode) | | cca 0,5 kg (1 kg variant NT, XiT) |

1) Error is larger at the beginning and end of the rod or rope electrode. More detailed informations can be found in the instruction manual.

2) Dead zone = Blind zone = Blocking distance

3) The length of dead zone at the beginning/at the end of the electrode. (The length of dead zone is 110 mm at the end of rope electrode.)

4) Level meter displays last measured value.

5) Including 250R resistor in case of HART connection.

For more information call:



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