Specifications

Process Connection	.....
Operating Range	L = ... mm
Resolution	☐ 6.35 mm, ☐ 12.7 mm
Number of Discrete States	operating range / resolution
Output Signal	4...20 mA, 2-wire
Maximum Line Load	750 Ω at 24V/20mA
Alarms	☐ NO contact for High alarm, ☐ NO contact for Low alarm
Contact Ratings	max. 60 V, max. 0.5 A, max. 10 W
Power Supply	8...32 VDC
Maximum Ripple	10% p-p at 50 Hz
Process Pressure	max. 20 bar
Process Temperature	-40...135 °C
Ambient Temperature	☐ -20...70 °C, ☐ -20...60 °C
Options	☐ vertical adjustment, ☐ RC modules, ... pcs., ☐ .....

Warranty and Support

……
serial number

……
manufacturing date

QC check mark ……(passed)
(stamp)

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P.O.Box 378
Plovdiv 4000, BULGARIA
tel: +359 32 646523, 646524
fax: +359 32 634089, 646517
e-mail: support@comeco.org

QD-8.2.4-WC

Warranty

COMECO warrants this product to be free from defects in materials and workmanship for 1 year. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see '**Specifications**').

Technical support

In the unlikely event that you encounter a problem with your COMECO device, please call your local dealer or contact directly our support team.

v6-10.11

COMECO CONTROL & MEASUREMENT

COMECO Inc., P.O.Box 378, Plovdiv 4000, BULGARIA, tel: +359 32 646523, 646524, fax: 634089
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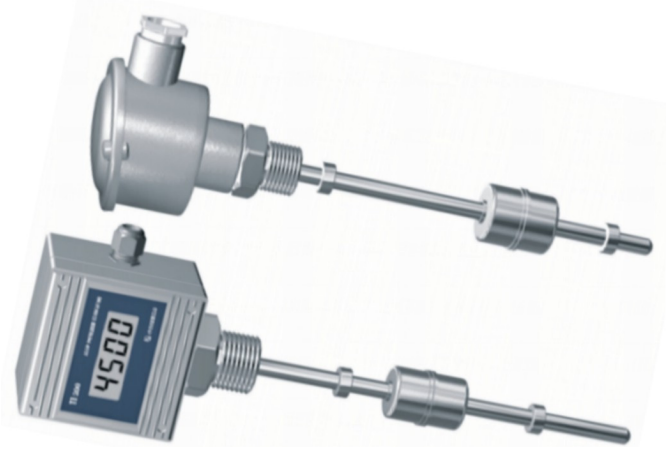
FLOAT LEVEL TRANSMITTER

LCSF100

OPERATION MANUAL



Please read this Operation Manual before mounting and operating!
Save the Manual for future references!

Overview

Important notes:

- *Do not operate LCSF100 in the immediately vicinity of strong electromagnetic fields (distance away at least 1 m).*
- *The switching points of LCSF100 cannot be adjusted.*
- *LCSF100 can only be used in media to which the material of the slip pipe and the float is resistant.*
- *LCSF100 may not be exposed to heavy mechanical stresses (i.e. shock, bending, vibrations).*

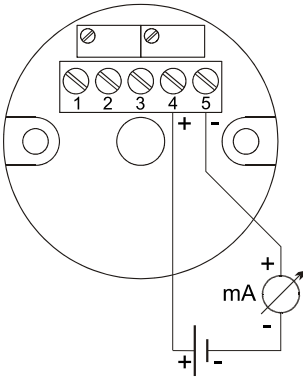
Functional description

LCSF100 operates according to the float principle with magnetic transmission. A permanent magnet is located in a float that moves alongside a protective tube and changes height with the level of the medium being monitored. Cascaded reed contacts build into the slip pipe or contact pipe are consecutively activated by the magnetic field of the magnet. The reed switches act on the elements of a resistor matrix, changing the total matrix resistance in linear proportionality with the measured level.

Area of application

LCSF100 is used exclusively for level control and monitoring of liquid media. The liquid may not be heavily contaminated and should not have a tendency to crystallize.

Wiring



Wiring transmitter with local indicator

See indicator's operation manual.

Wiring transmitter without local indicator

- Connect the transmitter as illustrated on the left, strictly observing the power supply and line load restrictions given in '**Specifications**'.
- Ensure the cable gland of the protective enclosure is securely sealed.

Important note:

All cabling and electrical connections must be carried out in accordance with regulations applicable in the country where the equipment is installed and by personnel qualified to do.

Installing

Disassembling and reassembling

Float removal is necessary only before installing the transmitter in an opening with a diameter smaller than the float diameter.

- Mark the positions of the set collars.
- If top and bottom of the float are not already marked, please do so now.
- Remove the float.
- After mounting the transmitter on the vessel as described in 'Installation', place the float back from inside the vessel.
- Fix the set collars back in the marked positions.

Installation

- Install the transmitter according to its process connection type (flange or thread). For flange types, use the screws and nuts suitable for the flange.
- Fit a suitable gasket for sealing.
- Make sure the transmitter is installed in upright position (max. deviation from the vertical ± 30°).

Maintenance

- When used properly, LCSF100 operates free of maintenance and wear.
- The transmitter must be eye-checked within the scope of the necessary inspections under extreme operating conditions.