

ELETTROSONDA DB

ADVANCED AND MULTIFUNCTIONAL LEVEL CONTROL UNIT FOR CONDUCTIVE LIQUIDS, Din rail mounting - 4 DIN, 72mm.

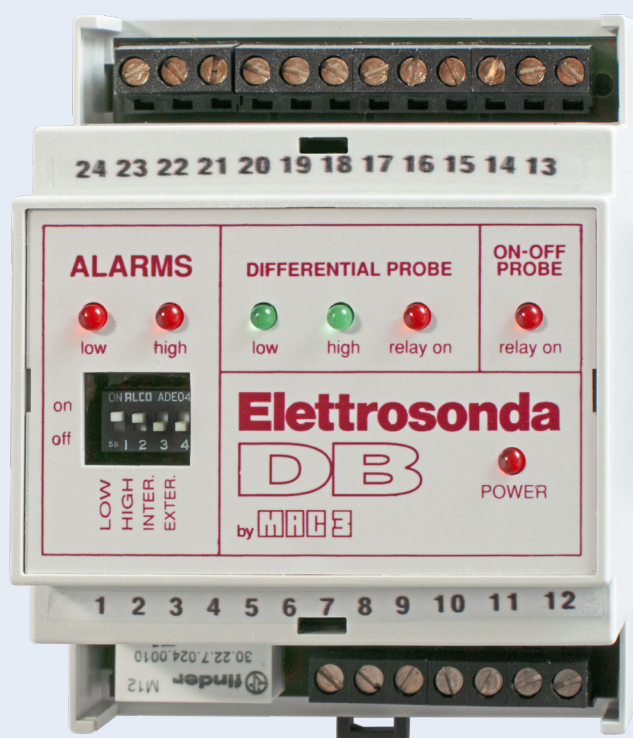
The 'Elettrosonda DB' is a multi-relay control unit designed to manage the levels of conductive liquids within preset parameters, activating/deactivating pumps or diverting valves and protecting submersible pumps from running dry. The system utilizes low-voltage electrodes, known as "probes", powered at 24V AC, to detect changes in the liquid level. When the probes come into contact with the conductive liquid, the current passes through the liquid, activating the relay integrated into the control unit.

DB offers flexibility with its 3 relays (alarm, output 1, and 2) and 5 inputs (low alarm, high alarm, on/off control, and differential). Here are some of its functions:

- ON-OFF at a single point: Activates the relay when the probe reaches the desired level.
- Differential: Maintains the level between the LOW and HIGH probes.
- Level alarms: High and/or low level alarms.

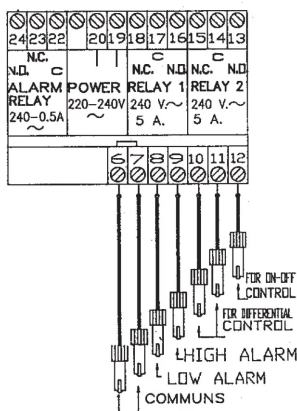
- Audible alert for internal high and/or low-level alarms.
- Output signal for external alarm activation (e.g., audible or visual signals), with the ability to enable or disable controls using DIP-SWITCHES.

This versatile device can replace 4 separate relays use to function in a same way. DB is available in various power voltages, such as 24/117/230Vac.





APPLICATIONS



- Tanks and Containers (even under pressure): monitoring and managing water levels in storage tanks,
- Basins: Monitoring water levels in basins or ponds,
- Wells: Monitoring and controlling water levels in wells,
- Rainwater Accumulation: monitoring and controlling water levels in rainwater accumulations.

TECHNICAL SPECIFICATIONS

Power Supply	230 V~ 50 ÷ 60 Hz
Electrode Voltage	24 V~
Mounting	DIN rail
Output Features	5(2)A 250V
Alarm Relay Output Features	AC1 0.5A 250 V ~ resistive
Response Time	100 ms
Operating Temperature	- 10°C ÷ + 50 °C
Container	Noryl (PPO) UL 94 V0
Protection Grade	IP20
Dimensions and Weight	90x72x60 mm / 320 gr.
Max. Probe Cable Length	20 m.
Available Power Supplies	24 V~/117 V~/230 V~

Five check points - provided without probes

MODEL	DESCRIPTION	SUPPLY VOLTAGE	ITEM
DB24	Normal 0-20K	24V~	ED4SA01000
DB110	Normal 0-20K	117V~	ED4SB01000
DB220	Normal 0-20K	230V~	ED4SC01000

