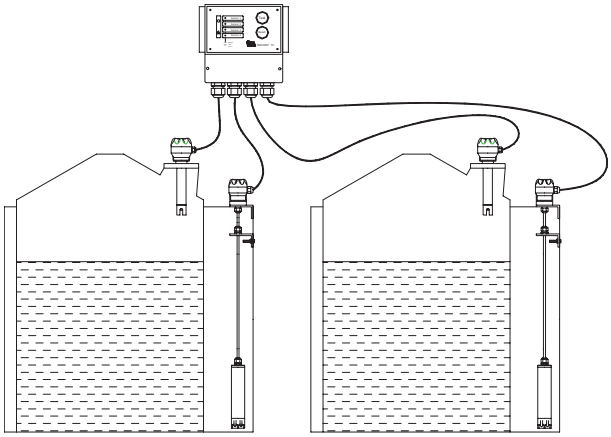
MAXIMAT® TC4

Signalling device for up to 4 MAXIMAT C line,
Overfill and leakage probes, with optical and acoustic signals
In accordance with approval requirements for overfill inhibitors



INSTRUCTION MANUAL

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Signalling device
4 sensor inputs
MAXIMAT® TC4
15-09-2008 555 M1 07 A

MES
555-07/1

Safety Precautions

- Installation, initial start-up and maintenance may only be performed by trained personnel.
- The device must be disconnected from all sources of power during installation and maintenance work
- The device may only be operated under the conditions specified in the operating instructions

Technical features

Supply power:	230 V AC or 24 V DC ±20%
Power consumption:	Approx. 6 VA / approx. 6W
Ambient temperature:	-20 to +60° C
Protection acc. EN 60 529:	IP 65
Special supply power:	15 V DC, short-circuit proof
Inputs:	Up to 4 MAXIMAT C line probes, plus 1 external reset contact
Outputs:	4 floating changeover contacts assigned to the individual probes 1 floating changeover contact for group alarms 1 floating changeover contact for the external horn
Contact rating:	for output relays, 250 V AC / 115 V DC - 500 VA / 3 A
Indicators:	4 LED (multicoloured) Blinking red = alarm pending Continuous red = alarm acknowledged Blinking yellow = defective probe Continuous yellow = test in progress Continuous green = probe is active Dark LED = no probe connected
Acoustic alarm:	1 piezo signal generator >75 dB (A)/1m
Optical alarm:	1 extra-bright flashing LED for group alarm
Controls:	Reset button for acknowledging alarms Test button for system test

System Test *

- Press the test button.
- The self-test is started for the signalling device. LED light up yellow for probes with test connection.
- Alarm simulation signals are read out to sensors 1, 2, 3 and 4, and the return signals from the sensors are checked

  (only for sensors with the test button option).
- The LED indicators, the piezo horn, the group output relay and the horn output relay are activated.
- Press the buttons located directly on the probes in order to test the individual probe alarm relays.

Test passed = The respective LED lights up green.

Test failed = The respective LED blinks yellow.

* **Note:** This function test does not replace the operating test specified in ZG-ÜS, section 6.2, which must be conducted for all probes on a regular basis at least once a year.

Wire Breakage Monitoring

Interconnected probes are monitored for broken wires during operation. Faulty connections are indicated by a blinking yellow LED for the respective probe. After the error has been eliminated, the TEST button must be activated, after which the probe is tested and the LED lights up green once again.

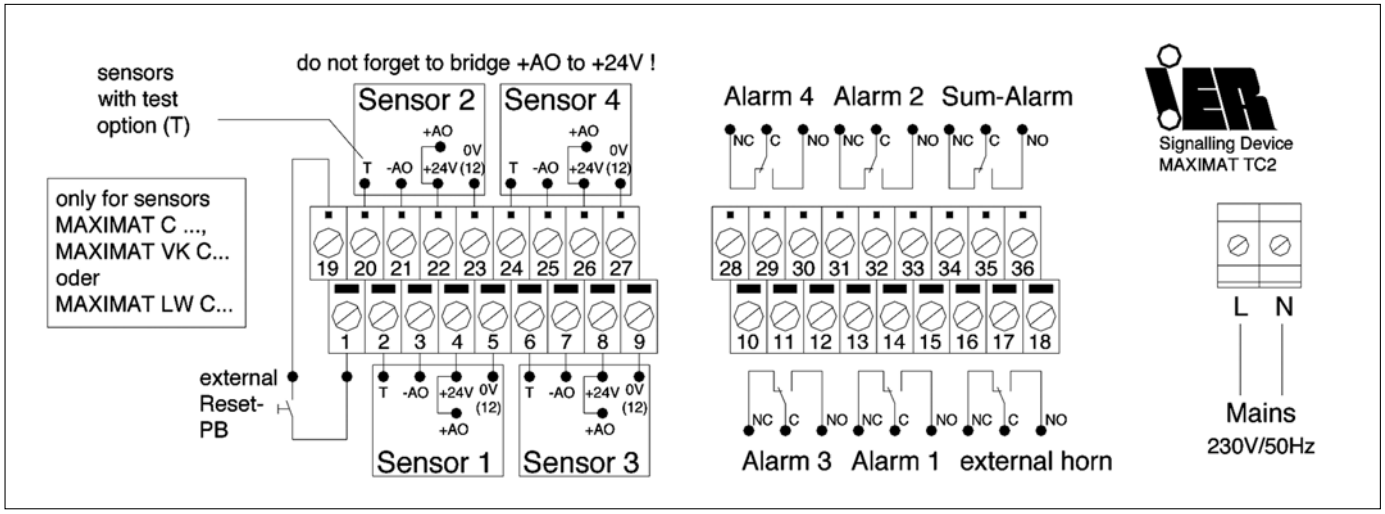
Maintenance

The device is maintenance-free if used for its intended purpose.
The internal miniature fuse may only be replaced with a new fuse of identical type!

CE Mark

In accordance with low-voltage directive 73/23/ECC and EMC directive 89/336/ECC

Electrical Connection



Installation and Initial Start-Up

- Mount the signalling device to the wall and connect the sensors in accordance with the schematic diagram shown above.
- Connect the signalling device to supply power *(230 V AC or 24V DC as specified on the serial plate)*.
- Switch supply power on.
- The signalling device conducts a self-test *(all LED and the piezo signal generator are tested)*.
- Interconnected probes are tested: LED light up yellow for probes with test connection.
- Test passed = continuously lit, green LED
- Test failed = blinking yellow LED
- None of the LED for unused channels light up at all.
- The following data are entered to a status list by the electronics for later use when the device is switched on for the first time:
  - Probe connected to input: yes/no, a single acoustic signal is generated during testing.
  - Respective probe equipped with test connection: yes/no, two acoustic signals are generated during testing
  (default setting: no interconnected probes).
- Each time the system test is conducted it can thus be determined whether or not the respective probes function correctly.
- If a new probe is connected, it is added to the status list the next time the device is switched on.
- If an existing probe is disconnected, it is removed from the status list and the respective LED is deactivated: Press and hold the reset button for at least 5 seconds.
- **Attention:** All probes must be tested for correct functioning in accordance with regulations set forth in section 8 of the general technical approval during initial start-up, and at least once a year thereafter!

Troubleshooting

None of the LED light up and all relays are released, although supply power has been switched on:

- Miniature fuse is blown (on the lower PCB).
- Short-circuit at one ore more probe cables (between 0 V and 24 V). The device is switched off by means of electronic short-circuit protection, and rapid ticking can be heard from inside the device.