



# T4000

## 4 CHANNEL TANK ALARM OR PUMP CONTROLLER.

### Applications Include:

- \* Up to 4 x Tank Level Switches , LL, L, H, HH
- \* 3 x Tank Level and 1 x Bund , Bund, LL, L, H
- \* 2 x Level, 1 x Bund, 1 x Water, Bund, Water, L, H
- \* Secondary High Level Alarm when combined with T4020/T5020
- \* Automatic Pump Control, with Fail Safe.
- \* Day Tank level control.

### Sensor Inputs Available from OLE

- \* Direct connect to T5020 Tank Gauge and utilise the tank sensor as the input triggers
- \* Normally Open and Normally Closed float switches. A selection of materials are available.
- \* Rod style Reed Switches with floats can be supplied with up to 4 x Factory set levels. All 300 series Stainless steel.

### TECHNICAL DATA.

#### Power supply

24 VDC as standard .  
100 / 240 vac @50/60Hz., stepped down to 24 VDC option.  
(When used in conjunction with T5020 Tank Gauge, power is provided by the gauge 24vdc supply, reducing power wiring requirements)

#### Inputs

Alarm Functions. Each of the 4 inputs can be set to.....  
Not Used, Normally Open (NO), or Normally Closed (NC)  
We recommend NC as this is 'Fail Safe'  
Labelling is included LL, L, H, HH, Bund, Water.  
Latching ( See Pump Control Mode Below).

#### Operation

In Safe Condition, Alarms being used show a solid Green LED.  
When an alarm condition occurs, the LED will Flash Red.  
When the Alarm is acknowledged, the LED will be Solid Red  
When Safe condition returns, LED will revert to Green.  
(Multiple Alarms can be acknowledged at any time)  
During Pump On mode, LED's are Orange

#### Outputs 1 and 2

1. Local Alarm / Siren connection, Sounds when the LED Flashes. Stops sounding when the Alarm is acknowledged.
2. BMS Remote connection is a output Volt Free Contact, that is normally closed. This connection 'Opens' when an Alarm is detected, and the LED is flashing, and remains open even after the alarm has been acknowledged. This Output will only close, when LEDs are Green and in Safe operation mode. This ensures BMS systems and similar control monitors can see when alarms occur and when the are made safe, and not simply acknowledged locally.  
T4000 relay / Remote control output ratings  
1-4 Control 250 Vac / 6 Amp Pump Control = 240 Vac / 6 Amp

#### Test Mode.

The T4000 has a built in circuit test function. This is a smart test, as it does not trigger the remote output, as this would alarm the BMS or other associated devices.

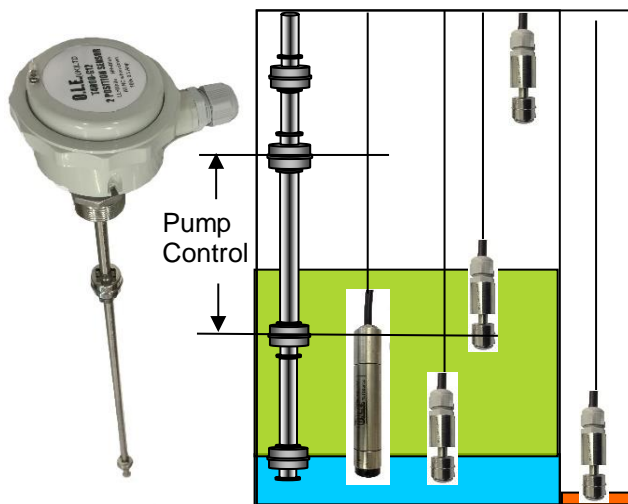
#### Pump Control Mode.

This Mode is jumper selectable. When control input 2 is triggered, this latches the Pump Control Relay On. When control input 3 is triggered, this unlatches the pump control relay.  
(As a failsafe, input 4 if triggered not only sound the alarm, but also opens the pump control circuit relay).

Operating Temperature	Humidity	Warranty
-5 to +60 DegC	5 to 90%	24 Month RTM

#### Applications:

Day Tank Control, Waste Oil Monitoring, Multiple High Level Tank Alarms, Sump Level control,



Combined with the T5020 Tank Gauge feeding the inputs of the T4000, the result is a full control system with a single power supply, No floats switches are required in this case, or can be added as fail safe controls.

### Connections / Operation:

- \* Direct connect to Building Management Systems (BMS) Monitor Tank Alarms.
- \* Stand Alone Tank Alarm, with 110 dB horn, and LED Lights.
- \* Direct connection to OLE T5020 Tank Gauge, providing additional ALARM functionality,

#### Options

T4000-24PR	Pump Controller unit, 24vdc powered
T4000-24AL	4 Channel Alarm unit, 24vdc powered
T4000-240PR	Pump Controller unit, 240 vac powered
T4000-240AL	4 Channel Alarm unit, 240 vac powered
T4000-G12	0.5 to 1.90 Meter float probe, 2 sensors
T4000-G13	0.5 to 1.90 Meter float probe, 3 sensors
T4000-G14	0.5 to 1.90 Meter float probe, 4 sensors
B8	Float sensor for either High or Low or Bund Alarm
B2	Probe for water bottom measurement