Sondestyrt Pumpekontroll versjon 2
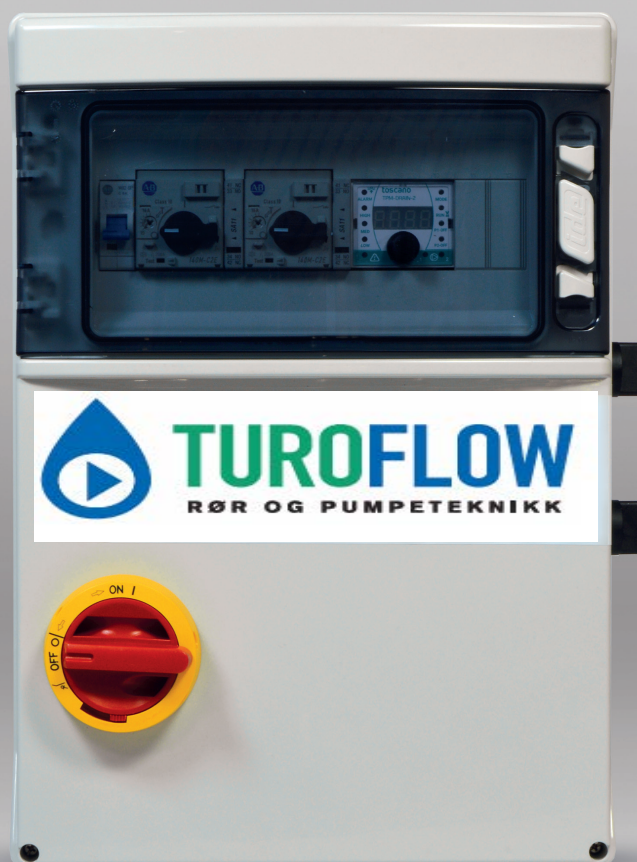

The perfect combination of power and control

Duplex control panel for lifting stations

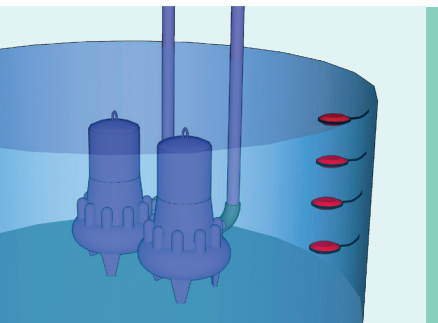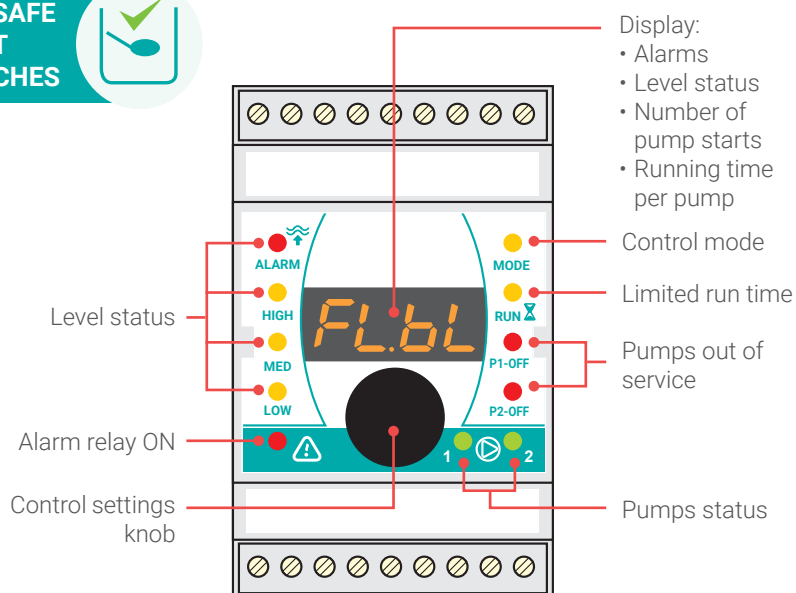## The competitive and reliable control panel for lifting stations.

Smart alternating control pumps with modular components and connectivity options.

Control module

FAIL-SAFE FLOAT SWITCHES

Display:
- Alarms
- Level status
- Number of pump starts
- Running time per pump

Control mode

Limited run time

Pumps out of service

Level status

ALARM
HIGH
MED
LOW

MODE
RUN
P1-OFF
P2-OFF

FL.bL

Alarm relay ON

Control settings knob

Pumps status

Advantages

Fail-safe float switches
Detects blocked or defective floats, maintaining correct operation.

Limited run time
Prevents dry running in case of blocked floats.

Full protection
Pump overload, Phase failure & Phase sequence, Isolated control and sensor voltage.

GSM Connectivity
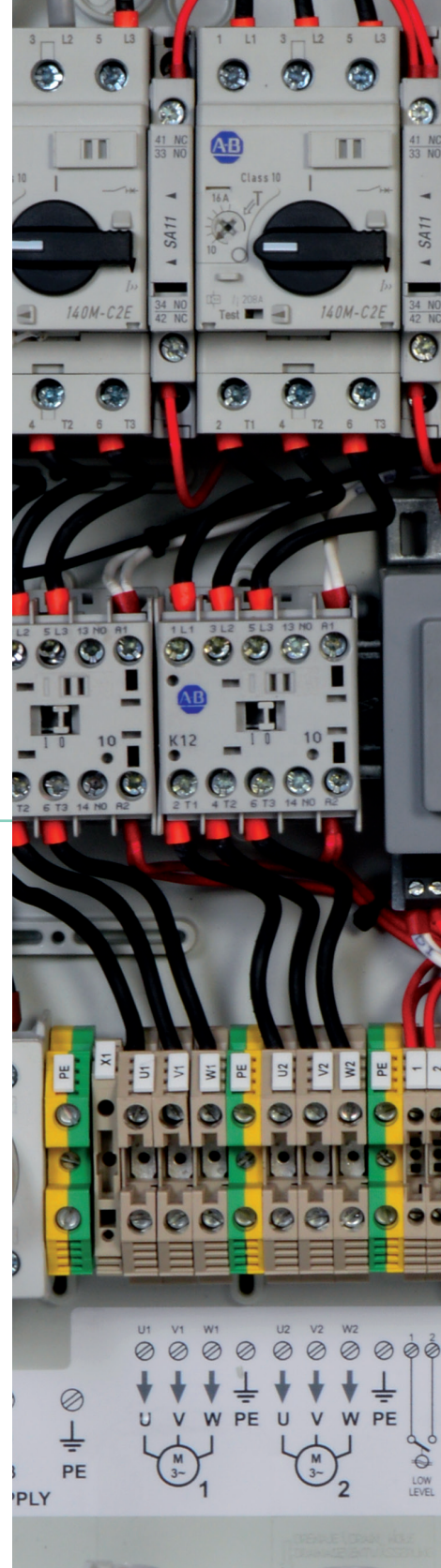GSM included available as option.

Ready to install
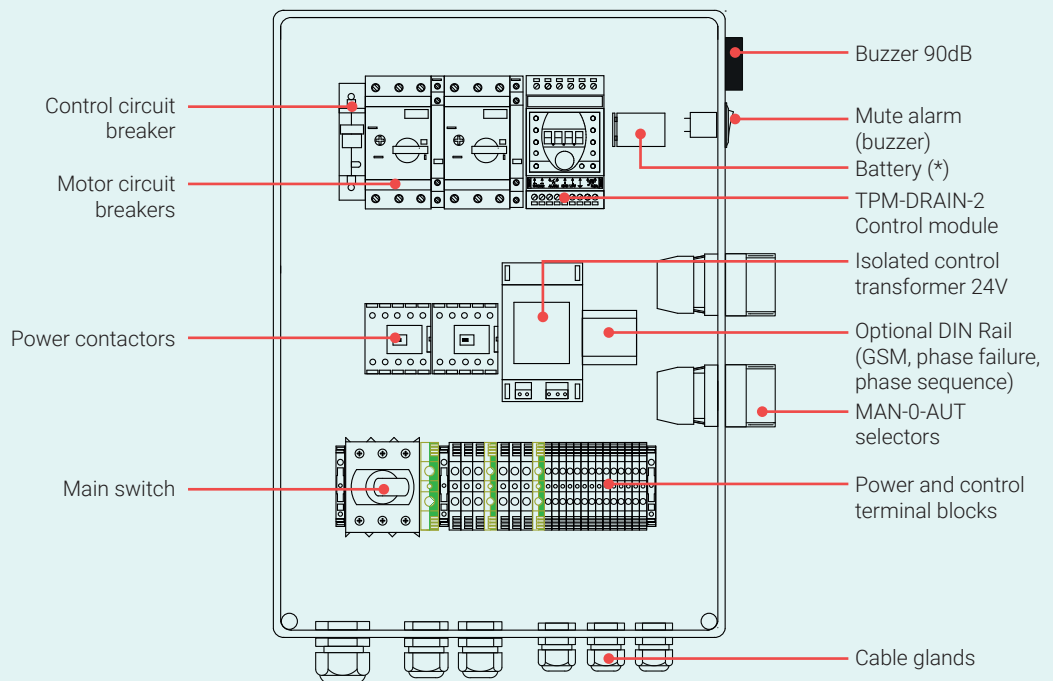Complies with safety electrical and machine directive standards.

Fits all control options
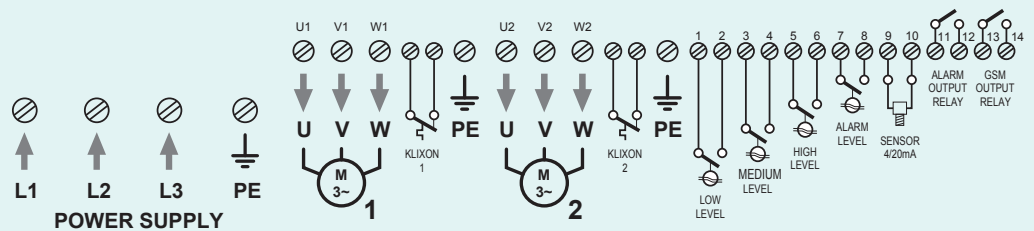Float switches or 4-20mA sensor. 4 operation modes.

Internal Layout

Control circuit breaker

Motor circuit breakers

Power contactors

Main switch

Buzzer 90dB

Mute alarm (buzzer)

Battery (*)

TPM-DRAIN-2 Control module

Isolated control transformer 24V

Optional DIN Rail (GSM, phase failure, phase sequence)

MAN-0-AUT selectors

Power and control terminal blocks

Cable glands

(*) Backup battery to activate the buzzer in case of power failure

Wiring

| U1 | V1 | W1 | | PE | U2 | V2 | W2 | | PE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

U V W PE **U V W** PE

KLIXON 1 — KLIXON 2

ALARM LEVEL — SENSOR 4/20mA

ALARM OUTPUT RELAY — GSM OUTPUT RELAY

HIGH LEVEL

MEDIUM LEVEL

LOW LEVEL

M 3~ **1**

M 3~ **2**

L1 L2 L3 PE

POWER SUPPLY

Easy and intuitive settings
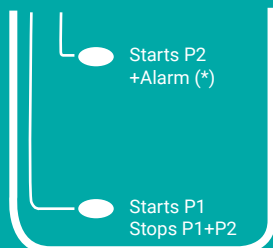Just the display and one control knob make easy to adjust and safe to operate.
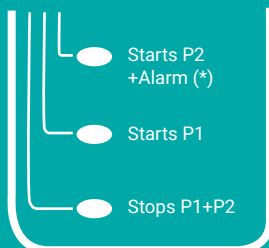
Fits any application
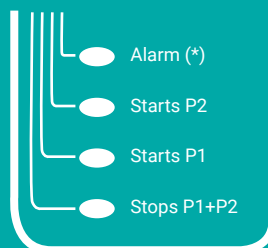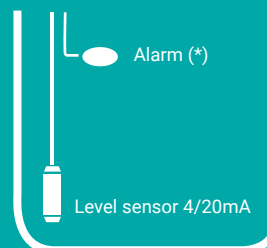Drainage, Sewage, Lifting stations, Transfer pumps.

Operation modes

2 Floats

Starts P2
+Alarm (*)

Starts P1
Stops P1+P2

3 Floats

Starts P2
+Alarm (*)

Starts P1

Stops P1+P2

4 Floats

Alarm (*)

Starts P2

Starts P1

Stops P1+P2

Sensor

Alarm (*)

Level sensor 4/20mA

(*) Activates both pumps in case of failure on any other float.

Specifications

Power supply	400VAC - 50/60Hz
Pilot lights (LED)	Alarm level, Pumps status, Level status, Control mode, Limited run time, Alarm relay ON, Pumps out of service
Motor protections	Overload, High temperature (thermal contact), Phase loss and sequence as option
Displayed information (4-digit LED display)	Alarms, Level status, Run time data, Service
Max. pump current	12A (available 16A, 22A)
Alarm output relay	5A max
GSM output relay	5A max
Overload protection setting	2,5...4A / 4...6,3A / 6,3...10A / 10...16A / 14,5...20A
Limited run time setting	OFF - 1...15 minutes
Floats voltage	Isolated 24VAC
Sensor voltaje	Isolated 24VDC
Maximum terminal cross-section	4mm² (power) / 2,5mm² (control)
Size / Weight / IP / Temperature	436x310x148mm / 5,1kg / IP65 / -10...+55ºC
Directives	2014/35/EU (Low voltage) - 2014/30/EU (EMC)

TUROFLOW
RØR OG PUMPETEKNIKK