

Tankmatic Series

“MG” SMART RELAY TANKMATIC RANGE

- Level and/or Temperature Measurement
- Single Tank Monitoring
- LCD Backlit Display
- BMS Volt Free Outputs
- High and Low level Alarm
- Wall Mounted IP55 Rated Enclosure
- Built to Latest CE Requirements and in accordance with our ISO9001 Quality System.



GENERAL APPLICATION AND SPECIFICATION

AquaTech Pressmain Tankmatic “MG” range of quality assured cold water storage tank level monitors are designed for monitoring and displaying the level and/or temperature of fluid in tanks using our Smart Relay Micro-controller technology.

The level monitors are an ideal solution for low water alarm conditions and can be used to interlock water pressure booster sets in low water conditions, similarly the high level alarm could be used to close an incoming water mains solenoid valve to prevent overflow condition.

In the case of the monitors fitted with temperature sensors these will satisfy the recommendations of the Water Supply (Water Fittings) Regulations 1999 as the tank water temperature is constantly monitored, an essential step in the control and prevention of Legionellosis.

Tank monitors provide displays in centimetres and degrees centigrade respectively, with High/Low approach and warning alarms. The backlit liquid crystal display with 4 lines of 12 characters, gives information to the user in “plain English”.

Volt Free Contacts for High/Low level & temperature alarm conditions are also provided for remote BEMS monitoring.

Tank content monitoring is via submersible level/temperature sensors suspended from a tank lid mounted connection box and utilising a guide weight & wire for stability. This simple arrangement means the monitoring system can be installed or retro-fitted to tanks without the need for draining down. Liquid level measurement/maximum tank depth can be up to 5 metres. Temperature measurement 0 to 50°C. The visual control panel, which is suitable for wall mounting, can be installed at any convenient position up to a maximum of 1500 meters away from the tank location.

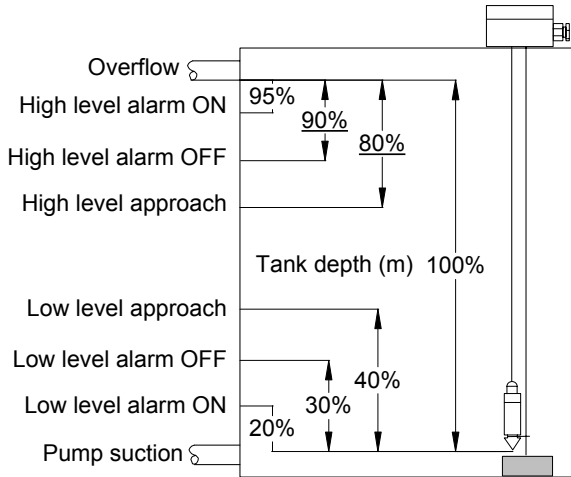
The 200mm x 300mm x 150mm deep, IP55 rated panel requires a 240Vac 50Hz, 6 amp electrical supply. Supply to the panel & interconnection of the sensors is by others.

All wetted materials are suitable for potable water.

INSTALLATION

Standard Settings

Tank Level



Tankmatic Components

Control Panel Fascia



Tank Temperature

Standard preset temperature alarms:-

- Low Temperature - On 3°C Off 5°C
- High Temperature - On 22°C Off 20°C
- Low Temperature Approach - On 5°C
- High Temperature Approach - On 20°C

Above settings are standard presets, however, all level and temperature alarm settings are fully adjustable via the control panel to suit on site requirements. If known, we are happy to set actual site specific alarm points at works prior to supply.

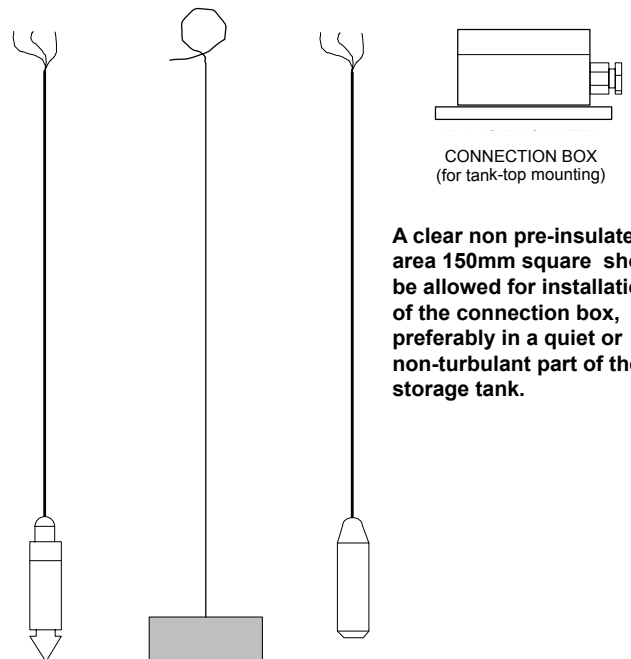
Model Selection Guide

The box below identifies the model designation based on number of tanks to be monitored and whether level, temperature or both are required.

Please refer to AquaTech Pressmain Sales for further assistance or clarification.

	TANKS	LEVEL	TEMP
MG1-L	1	✓	
MG1-T	1		✓
MG1-LT	1	✓	✓
MG2-L	2	✓	
MG2-T	2		✓
MG2-LT	2	✓	✓

Tank Sensors & Accessories



SUBMERGED LEVEL TRANSDUCER

Standard cable length 5.5 Mts
Range 0-5Mts

GUIDE WIRE AND WEIGHT

Standard cable length 6 Mts

SUBMERGED TEMPERATURE SENSOR

Standard cable length 5.5 Mts
Range 0-50°C

CONNECTION BOX (for tank-top mounting)

A clear non pre-insulated area 150mm square should be allowed for installation of the connection box, preferably in a quiet or non-turbulent part of the storage tank.

CONSTRUCTION STANDARDS FOR SMART RELAY TANKMATIC RANGE

ITEM	MODEL / SERIES	STANDARDS / CLASS	REMARKS
Control Cabinet	Clear Front	IP55, BSEN 60204 part 1, 89/336/eec:1997	CE Approved
Quality System		BS EN ISO9001:2001	Registered by BSI