

AQUAMETA

EASY WATER LEVEL MONITORING AND CONTROL

FEATURES

- Easy to install
- Low maintenance
- Wireless operation 300m line-of-sight
- Powered by 12V DC
- Accurate level measurement
- View water level at a glance on the attractive slimline wall mounted panel
- Simultaneously monitor the levels of up to 5 tanks on one display
- Set alarms for low level conditions
- Communications interface for data logging to computers
- 12 month warranty

APPLICATIONS

- Control trickle feed systems
- Ideal for monitoring tank level where there is no power
- Level data logging
- Pump and valve control
- Ideal for underground and concrete tanks

PRINCIPLE OF OPERATION

The base [Aquameta](#) system comprises a Tank Unit and a remote Command Module that displays the level and any alarm conditions. The Tank Unit communicates with the Command Module via a radio link. The Tank Unit is installed at the Tank and uses a differential pressure sensor located at the bottom of the tank to monitor the depth of the water.

COMMAND MODULES



R1 COMMAND MODULE

This unit will display the level of 1 tank. The R1 unit can have either T434B or T434R Tank Units reporting to it



R5 COMMAND MODULE

This unit can simultaneously display the level of 5 tanks. The R5 unit can have any combination of T434B and T434R Tank Units reporting to it.

TANK UNITS



T434B TANK UNIT

This unit is used to transmit water level data to the R1 or R5 Command Modules. Powered by 12v.



T434R TANK UNIT

This unit can transmit water level data and has a DPDT relay that can be used to directly control 12V and 24V devices. The relay is activated when the water level falls below the level nominated by the Low Level dial on the Tank Unit. The relay is deactivated when the water level reaches the level nominated by the High Level dial on the Tank Unit.

SPECIFICATIONS OF TANK UNITS



MODEL	T434B	T434R
Input Voltage	12V	12V
Idle Current	6.5mA at 12V, 1.5mA at 6V	N/A
Peak Current	11mA	600mA
RF Frequency	433.92MHz	433.92MHz
RF Output	25mW	25mW
RF Range	300m Line-of-sight	300m Line-of-sight
Maximum Water Depth	4m	4m
Alarm Setting Range	0 to 60%	N/A
Low Level Trigger %	N/A	0 to 60%
High Level Trigger %	N/A	0 to 100%
Sample Rate	Adjustable from 5 seconds to once every 30 minutes	150ms
Transmission Rate	Adjustable from 5 seconds to once every 30 minutes	Every 5 to 6 seconds
Depth Resolution	2mm at 1m, 8mm at 4m	2mm at 1m, 8mm at 4m
Sensor Cable Length	4.5m	4.5m
Relay Contact Rating (Dual Pole, Dual Throw)	N/A	10A @ 24V
Dimensions (mm)	145(L) x 130(W) x 70(H)	145(L) x 130(W) x 70(H)
Warranty	12 Months	12 Months

SPECIFICATIONS OF COMMAND MODULES

MODEL	R1	R5
Max number of tanks displayed	1	5
Input Voltage (Power adaptor)	12V DC	12 V DC
Input Current	120mA	100mA
RF Frequency (receiver only)	433.92MHz	433.92MHz
Dimensions (mm)	130(H) x 130(W) x 20(D)	130(H) x 130(W) x 20(D)
Antenna Height (mm)	20	30
Data output baud rate - Requires ANA232 data cable	4800 baud	4800 baud
Warranty	12 Months	12 Months

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