



## Control Panel

# Model iZ-TPFP

### SPECIFICATION – BREEAM WAT 03 MAJOR WATER LEAK DETECTION

The i-Zone Touch Control Panel is suitable for wall mounting. It is constructed from mild steel and has a durable powder coated finish. It features a 5-inch full colour LCD Touch screen and is capable of monitoring 2 x pulsed flow meters for incoming mains water supplies.

The i-Zone Touch Control Panel will allow users to meet the requirements of BREEAM WAT 03, and has the following features: -

- The facility to monitor two pulse flow meters.
- 24v Relay output to control a solenoid valve.
- Selectable 'pulse per litre' settings for all meter sizes.
- 7 or 28 day Learn programme, with simultaneous default level monitoring.
- Default alarm levels of 50, or 10,000 litres per hour.
- Every day is split into 24 individually programmable hours for full control.
- UNOCCUPIED MODE function which overrides all current settings, and either triggers the relay instantly, closing a solenoid valve (if connected), or allows a minimum amount of water through before again triggering the relay.
- Alarm override function.
- Continuous Flow leak detection with adjustable time per pulse, and maximum allowed volume.
- Month by month data logging of water consumption.

The Control Panel has 3 levels of use, Level 1 User level, Level 2 PIN protected Operator level, and Level 3 PIN protected Engineer access. In any alarm condition a 97db (at 1 metre) audible alarm will sound.

The Control Panel can store up to 5000 events logs, which are protected by a non-volatile memory. The system has an automatic Daylight-saving setting to change times twice a year in line with UK protocols. This can be deactivated for export models.

Features of the Control Panel include a MUTE button, ISOLATE zone button, and RESET button. A HELP button will display information to aid users in understanding information being displayed.

The system is fitted with 2 x sealed rechargeable lead acid batteries to support the system in a mains power down/switch over periods. When power/mains are reinstated, the system will automatically restart.

For remote signalling the Control Panel is supplied with the following outputs as standard: - MODBUS TCP/IP, five-zone relay contacts, which can be level 2&3 programmed to signal with any zone, 12v powered contacts to activate a sounder/beacon, repeater panels, 12 & 24v powered auxiliary outputs, and a 24v @ 8 amp relay for activation of a flow meter solenoid valve (note – this is NOT a powered relay).

For safety, the Control Panel is fitted with a key operated door lock and 'Power off' door switch.



## Data

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Main Features.....               | 5-inch full colour LCD Touch screen<br>System will monitor 2 x Flow meter Inputs<br>Last 5000 event memory.<br>Alarm Siren 97db &1/m<br>3 User levels (two with PIN protection).<br>Automatic daylight saving.<br>ISOLATE alarm function with time selection.<br>Configurable zone alarm functions.<br>HELP pages with Explanations & Solutions.<br>Lockable powder coated mild steel cabinet.<br>Door interlock safety switch<br>Mains Fail battery backup & power down.<br>Auto panel re-start. |
| Outputs.....                     | MODBUS TCP/IP<br>Five programmable volt free contacts.<br>-1Amp@125volts or 2Amps@30voltsDC<br>Auxiliary 12v output - Max 500mA rating<br>Auxiliary 24v output - Max 500mA rating<br>Beacon 12v output - Max 500mA rating<br>Sounder 12v output - Max 500mA rating<br>Valve - connector rating 24v DC @ 8amps                                                                                                                                                                                     |
| Mains Voltage Range.....         | 110 or 240 volts A.C. @ 50 or 60Hz<br>via a 5amp non-switched fused spur.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Normal Operating Voltage.....    | 24 volts D.C. internally supplied                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating Temperature Range..... | 0 to 50 deg. C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Approvals.....                   | BS EN ISO 14001 & ISO 9001 : 1994<br>EMC Directive 89/336/EEC,CE Marked                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cabinet Dimensions.....          | Height 375mm<br>Width 310mm<br>Depth 95mm                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

