SmartLink 100

The **SmartLink 100** is a basic off-grid storage tank monitoring and control setup.

The product consists of 2 paired devices. The one is installed in the water reservoir with a float switch and the other is installed at the pump controller.

The tank device communicates wirelessly with the controller unit to turn the pump on and off when full / empty.

The Devices are very easy to install and require little to no maintenance. They can be used on a variety of water storage applications including tanks, reservoirs and dams.

FEATURES:

- **Battery life of 2-3 Years**
- **+-1 km wireless range (line of sight)**
- **Float Switch**
- **Normally Open Relay Contact**
- **12-24 V operation (receiver)**

SPECIFICATIONS:

BASE STATION

Dimensions:	122 x 120 x 56 mm
Weight:	501 g
Water and dust rating:	IP 65
Output Type:	Relay (1 A) Normally Open
Power Input:	12-24 V DC
Operating Temperatures:	-10 ºC to +65 ºC
Battery:	N/A
Connectivity:	Long Range Wireless

TANK MONITOR

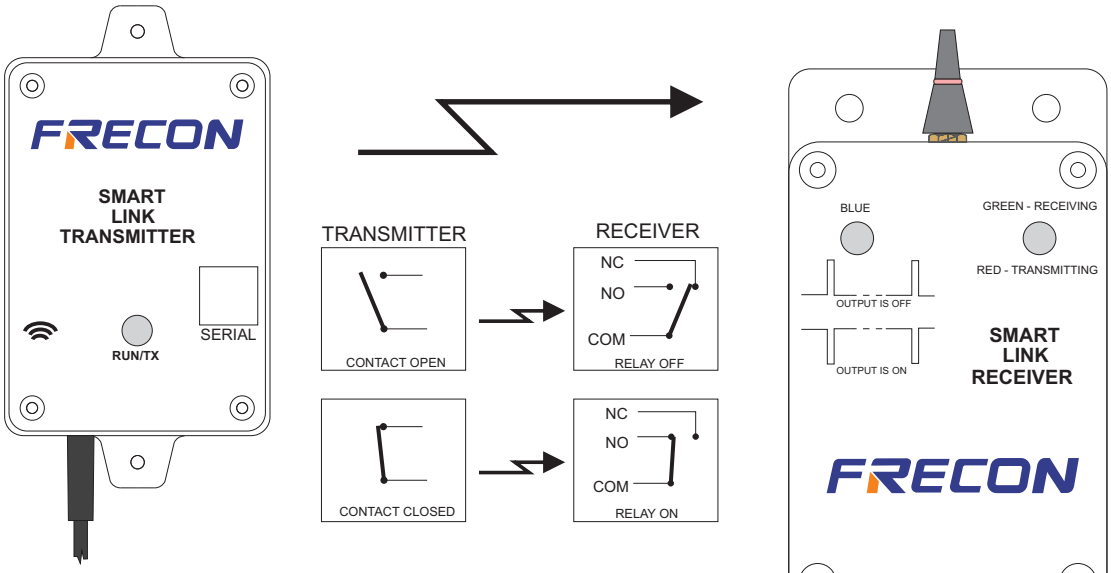
Dimensions	107 x 54 x 35 mm
Weight	152 g
Water and dust rating	IP 65
Input Type	NO/NC digital Input
Power Input:	None (battery operated)
Operating Temperatures:	-10 ºC to +65 ºC
Battery:	1700 m Ah Lipo
Connectivity:	Long Range Wireless

Long Range Wireless
Licence free Operation
Long Battery Life
Secure Bi-directional Communications

PM-SL-200

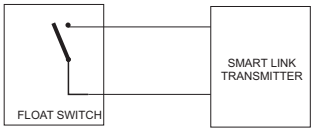
WIRELESS FLOAT SWITCH KIT

FRECON



TRANSMITTER INSTALLATION

- Connect the float switch contact wires to the two wires on the transmitter
  Note that this is a dry contact (not powered)



- Connect the float switch contact wires to the two wires on the transmitter
  Note that this is a dry contact (not powered)
- Mount the transmitter vertically (not in a metal enclosure)

TRANSMITTER SPECIFICATIONS

- Battery 3.6V 2200mAH (> 3 years life under normal operation)
- Transmit power 25mW (effective radiated power)
- Frequency 868 MHZ ISM (licence free) band

OPERATION

- When the contact to the TRANSMITTER is CLOSED, the state is sent to the RECEIVER which turns ON the RELAY output.
- When the contact to the TRANSMITTER is OPEN, the state is sent to the RECEIVER which turns OFF the RELAY output.

INDICATORS AND CONTROLS

TRANSMITTER

- The RED lamp flashes periodically (every 4 seconds) during operation
- The RED lamp glows when unit is transmitting a signal to the RECEIVER

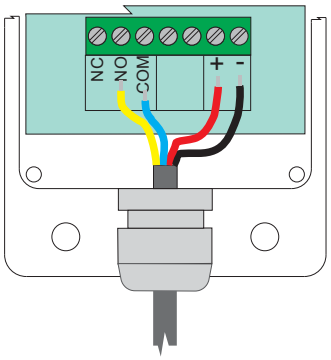
RECEIVER

- The BLUE lamp flashes during normal operation
  If the lamp is OFF and flashing ON - the relay is OFF
  If the lamp is ON and flashing OFF - the relay is ON
- The RED lamp turns on when the unit is transmitting a signal
- The GREEN lamp turns on when the unit is receiving a signal

RECEIVER INSTALLATION

- Open the lid by loosening the four screws
- Wire the 12 to 24V DC supply into the terminals. Observe the polarity
- Wire the relay COMMON and either the: NORMALLY OPEN (NO) **or** NORMALLY CLOSED (NC) to the load

NOTE - DO NOT DRIVE A MOTOR OR OTHER HIGH POWER LOAD DIRECTLY - USE AN EXTERNAL RELAY OR CONTACTOR



- Screw the antenna onto the top of the unit
- Mount the unit vertically (not in a metal enclosure)

RECEIVER SPECIFICATIONS

POWER SUPPLY
11 to 30V DC - 150mA Maximum

RADIO FREQUENCY
Transmit power 25mW (effective radiated power)
Frequency 868 MHZ ISM (licence free) band

RELAY OUTPUT
Maximum voltage 250V AC, 30V DC