

Ecochirp PulseTransmitter Quick Start Guide

**This guide covers only
the most basic operations.
For other features and
more details, see
www.fluidconservation.com**

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WARNING: - LITHIUM BATTERIES
If batteries are exposed - do not short circuit, re-charge, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above the declared operating temperature range of the product. **Risk of fire or explosion.** These batteries are sealed units which are not hazardous when used according to the recommendations of the manufacturer.

If further support or assistance is required, please contact FCS
Technical Support on 1-800-531-5465
or e-mail sales@fluidconservation.com

Part number :

Single Channel Pulse Tx	Red – Pulse Ch1 +ve
Dual Channel Pulse Tx	Red – Pulse Ch1 +ve
	Black – Pulse Ch1 –ve
	Yellow – Tamper +ve (if fitted)
	Blue – Tamper –ve (if fitted)
	Blue – Pulse Ch2 –ve
	Yellow – Pulse Ch2 +ve
	Black – Pulse Ch1 –ve
	Red – Pulse Ch1 +ve

2. CONNECTIONS

The connections for the single channel pulse and dual channel pulse transmitters are shown in the table below.

INTRODUCTION

1. Ecochirp Quick Start Guide
This guide covers only the most basic operations including connections and commissioning.

The Ecochirp transmitter is a low cost, easy to install, durable pulse transmitter that counts pulses from meter-head or reed switch type output utility meters. The market leading transmitter is designed to provide consumption data for billing, monitoring and targeting.

HWM reserves the right to change any product specification without prior notice.

3. INSTALLATION

Optimum operating temperature should be below +50°C. We cannot guarantee the maximum life; therefore it is recommended to keep within the optimum operation temperature range for maximum battery performance.

If monitoring hot water systems it is not advisable to mount the transmitter directly on the pipe without intervening insulation.

For maximum transmission range the antenna of the transmitter should point upward (vertical polarization) and should be kept clear of obstructions, particularly metallic surfaces. Mounting brackets are available, to fit the cavity at the rear of the transmitter.

Operating in extreme environmental conditions will degrade the life-time of the battery.

4. OPERATION

The reed switch is located on the front right of the unit. The unit will normally be transmitting out of the box. If a restart is required or the unit doesn't appear to transmit, use the reed switch to initiate transmission. Hold a magnet to close the reed switch and cause the firmware reset. A click from the reed switch may be heard followed by a transmission burst.

Reed switch operation can be verified using an RF scanner tuned to the transmission frequency, when transmitting a burst or blip can be heard.

5. COMMISSIONING

The transmitter ID/serial number should be noted along with the corresponding meter number, the meters current reading and the initial transmitter pulse count and/or site location.

The current count value held in the transmitter should be used as an offset as for future readings. The offset value will need adjusting if the pulse count value exceeds 16777215 (24-bit number) as the pulse count value will return back to zero.

This value will vary from unit to unit. Note for reasons of fraud prevention it is intentionally not possible to reset transmitter pulse counter to zero.

FCC warning statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment