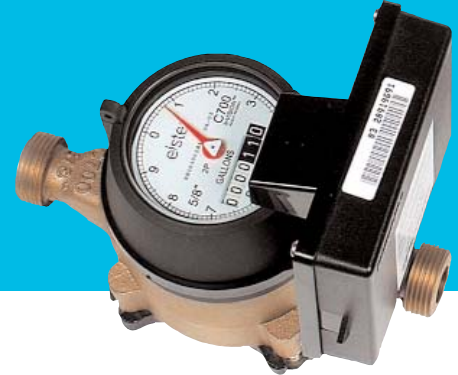


Encoder or Digital Register with 50W Remote or Integral Mounted Radio Module



Functional Specifications

- Power source: two "A" cell lithium batteries
- Radio programming parameters:
 - 50W programmed to Wake-Up Mode: utility ID, wake-up tone, lock level and register variables
 - 50W programmed to Bubble-Up Mode: same as above with addition of bubble up rate (factory default 3 seconds), encoder latency (factory default 1 hour for encoded registers) and debounce.
- Tamper detection: Cut Cable/No Read Indicator and Tilt Tamper
- Operating temperatures: -40°F to +158°F (-40°C to +70°C)
- Operating humidity: 0 to 95% relative humidity
- Product identification: numeric and bar coded ERT module serial number
- Installation options: directly installed on meter register assembly or remotely mounted on pipe (both require separate mounting kit); modules can also be remotely mounted on nearby wall (indoors or outdoors)

Approved Reading Devices

Mode	MC	FC200	G5R	FS3PN	FS2PN
Wake-Up	X	X	X	X	X
Bubble-Up*	X	X	X		

Mode	MicroNetwork	Fixed Network
Wake-Up	X	X
Bubble-Up*	X	

*If using the 50W in bubble-up mode and an FCC license has not been obtained, the reading device must not transmit a wake-up signal. Customers using the MC, FC200 or G5R in bubble-up mode without an FCC license must be using MVRS software, version 5.0.1 or higher. Refer to installation manual for reading device for instructions on disabling the transmitter.

Regulatory & Standards

- FCC compliance: Part 15 certified

The 50W ERT® module for indoor water meters is the data collection endpoint device for Elster AMCO Water/Itron's radio-based handheld, mobile AMR and network AMR systems. With its innovative dual-mode operational capability, the 50W provides unrivaled flexibility, battery life and ease of use.

The 50W encodes accurate consumption and tamper information from the water meter. To provide maximum flexibility to users, the 50W can be programmed to communicate with Elster AMCO /Itron meter reading technologies in either "wake-up" mode or "bubble-up" mode. When used in wake-up mode, it waits for a wake-up signal over a radio frequency and then automatically transmits metering data to a radio-equipped handheld computer, Mobile Collector System AMR unit, as well as Fixed Network and MicroNetwork data collection solutions. In bubble-up mode, the ERT transmits a continuous stream of information and can be read by the Mobile Collector, FC200, G5R handheld, or fixed-based MicroNetwork. When used in bubble-up mode, the 50W module does not require an FCC license to operate.



Operational Specificatons

- Receive frequency (for product used in wake-up mode): 952-956 MHz
- Transmit frequency: spread spectrum 910-920 MHz
- FCC license is required if a wake-up signal will be sent from reading device (for product used in wake-up mode)
- No FCC license is required if product is used in bubble-up mode

Meter Compatibility

- C700 Positive Displacement with encoder or digital register
- Series T3000 Class II Turbine meters with encoder or digital register
- C3000 Compound meters with encoder or digital register

The 50W ERT module can be connected directly or remotely to indoor water meter registers and can be installed indoors or outdoors, above grade.

The 50W is powered by two long-life, replaceable "A" cell lithium batteries. Estimated battery life for the 50W when used in bubble-up mode is a minimum of 10 years. Estimated battery life when used in wake-up mode is 20 years, which is the same as the life expectancy of the ERT module, meaning battery changeout programs will not be necessary. To maximize installation efficiency, Elster AMCO Water offers all applications and related hardware to support automation of the installation process. Elster AMCO Water also provides easy-to-use file interfaces to support the upload and download of information to utility billing systems.

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