





AnyQuest & EverBlu Pulse Enhanced

Radio Module for Remote Meter Reading

The AnyQuest / EverBlu Pulse Enhanced module has been designed to fulfil the requirement to connect easily any meter with pulse output to the Itron AMR & AMI systems. With this generic interface module water, gas, electric, heat and cooling meters can be integrated into the AnyQuest, EverBlu and UniGate radio reading systems.

Benefits of Wireless Solution

- » Radio meter reading increases the reading speed.
- » The data reliability is improved significantly by avoiding typing or writing errors.
- » The radio reading also opens the accessibility to all meters even if the customer is absent or the meters are installed in hard to read locations.

AnyQuest / EverBlu Pulse Enhanced Working Technology

- » Based on the proven design of AnyQuest / EverBlu Cyble, the Pulse Enhanced works reliably even in harsh environments.
- » It counts, memorises, analyses and transmits on request, the consumption data of any meter via, mobile or fixed network reading systems.
- » The AnyQuest / EverBlu Pulse Enhanced is compatible to the open RADIAN radio protocol.

Ease of Installation

Thanks to the special design, it can be easily fixed on the piping or screwed on the wall.

The cable connection to the pulse emitter can be easily done on site and it is protected by a sealed cover.

Consistent Reliability

With the long experience in battery powered metering products, Itron knows that reliability is key for customer satisfaction.

- » The enhanced power management allows 15 years of mobile use / 10 years of lifetime when read through EverBlu fixed network.
- » With the IP 68 protection the device can even be installed in flooded pits.
- » Special electronic design ensures long communication range even in very dense populated and RF perturbated areas.

» The AnyQuest / EverBlu Pulse Enhanced case is made of extra robust plastic material which makes it resistant to shocks and UV-lights.

Advanced Functions

AnyQuest / EverBlu Pulse Enhanced provides powerful smart functions, adding value for your AMR / AMI applications:

- » Up to 181 consumption intervals (24 hourly indexes when used in EverBlu / UniGate application).
- » Leakage alarm + 13 months history
- » Backflow alarms + backflow index
- » Tamper alarm
- » End of battery lifetime indicator
- » Metering intelligence functions:
 - meter oversized
 - meter undersized
 - meter blocked
 - peakflow log + 13 monthly alarms
 - 2 x time of use indexes
 - · critical alarms are date stamped

Radio Frequency FeaturesProtocolRADIAN / EverBluModulationFrequency Shift KeyingFrequency & power433.82 MHz ; ≤ 10 mW ERPTransmissionSymmetrical 2 way communication

Reed input char. Solid state input char. $R_{on} \le 1 \text{ k with } R_{off} \ge 2.2 \text{ M or } R_{on} \le 50 \text{ with } R_{off} \ge 1 \text{ M}; t_{max} \le 10 \text{Hz}, t_{pulse} \ge 6 \text{ms}$

Dir. / Backflow input char. $R_{\rm off} \geq 1~{\rm M}~;~R_{\rm on} \leq 30~;~C_{\rm out} \leq 1~{\rm nF}~({\rm logic~high} = {\rm forward~flow~counting})$

Tamper contact (normally open or normally closed depending on configuration) $f_{max} = 0.1 \; Hz, \; R_{on} \leq 1 \; k \; with \; R_{off} \geq 1 \; M\Omega$

Functional Specifications

Dimensions 138 x 54 x 59 mm

Battery lifetime (min.) 15 years mobile reading use

10 years fixed network use (EverBlu / UniGate)

Case protection IP 68 submersible

Relative humidity 0 to 100% Operating temperature** $-10^{\circ}\text{C} / +55^{\circ}\text{C}^{***}$ Accidental temperature $-20^{\circ}\text{C} / +70^{\circ}\text{C}$

Conformity C€ certified, in accordance with the European R&TTE directive (1999/5/EC)

Atex version available on request



AnyQuest Software

Enhanced Functionnalities 0 1 5 Volume index Volume index at time of reading Preset billing date Volume index recorded at 4 preset dates (programmable) History of up to 181 consumption intervals Data-logging (hourly,daily,weekly,monthly) Registers consumption within a defined intervals of the 2 Time-Of-Use Indexes year and day Total consumption above a high flow-rate threshold Volume above threshold Volume below threshold Total consumption below a low flow-rate threshold 2 x 13 monthly indicators if the meter is oversized or Meter sizing indicators undersized 13 month history of number of leakage days Leakage information Backflow volume and Total backflow volume and 13 monthly alarms alarm Alarm if no consumption over a configurable period has Meter stopped detection been recorded Alarm if > 1000 consecutive pulses in reverse direction Reversed meter detection have been recorded Module tamper detection Alarm if the radio module module has been tampered Alarm log Log of start and end dates for last recorded critical alarms Peak flow-rates 5 highest peak flow-rate values with date of occurrence



Peak flow alams

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13 monthly alarms if the peak flow threshold has been

For more information, contact your local sales representative or agency



exceeded

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^{*} High Temperature (HT) version also available on reques

^{**} Operation: +5°C to +35°C / Storage: +5°C to +35°C / Transport: Min. -20°C (< 24 hours continuous), Max. +70°C (< 24 hours continuous) / Min. operational temperature: -10°C (< 15 days/years) / Max. operational temperature: +55°C (< 15 days/years).