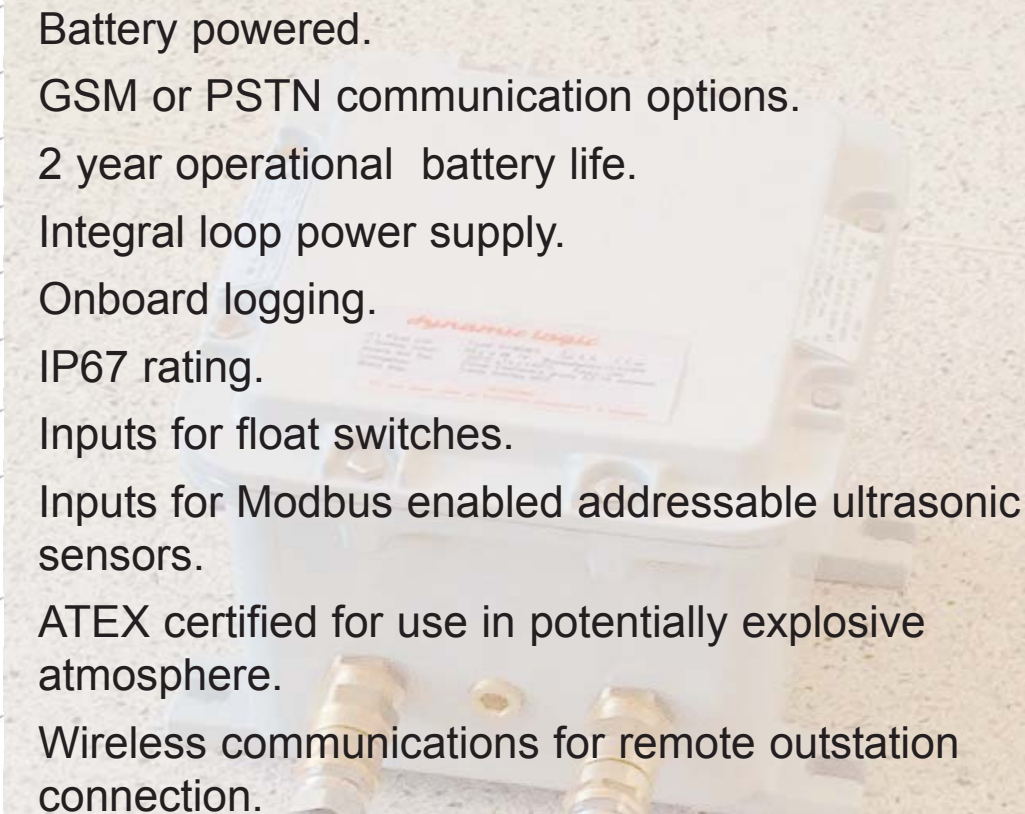


The D7160 *ex*

The ideal CSO outstation features?

- 
- ✓ Battery powered.
 - ✓ GSM or PSTN communication options.
 - ✓ 2 year operational battery life.
 - ✓ Integral loop power supply.
 - ✓ Onboard logging.
 - ✓ IP67 rating.
 - ✓ Inputs for float switches.
 - ✓ Inputs for Modbus enabled addressable ultrasonic sensors.
 - ✓ ATEX certified for use in potentially explosive atmosphere.
 - ✓ Wireless communications for remote outstation connection.

✓ = **D7160 *ex*** feature

The D7160 *ex* is an IP65/IP67 low-power data logger/telemetry outstation suitable for operation in an explosive atmosphere. Self-powered the unit uses lithium batteries that can power the unit and associated instrumentation for typically 3 years, depending on usage and temperature conditions.

The D7160 *ex* is designed for monitoring small I/O in explosive atmospheres when mains power is not suitable but the functionality and communication of an outstation / RTU is still required. The D7160 *ex* series fits Combined Sewer Overflow (CSO) monitoring perfectly and also lends itself to monitoring and controlling a wide range of applications in the utilities and industrial markets.

As a telemetry outstation, the D7160 *ex* unit is capable of reporting alarm conditions as they arise. Stored data can be retrieved at any time, remotely over GSM links to a Masterstation.

D7160 *ex*, ATEX approved telemetry outstation.

- ◆ Robust , flameproof housing (Ex d) suitable for zone 1 flammable gas atmosphere.
- ◆ Tested to IP67 , can be used where a possibility of flooding exists.
- ◆ Three M20 apertures allow for field wiring via flameproof glands.
- ◆ Field wiring in the hazardous area can use steel braided cable or conduit / trunking.
- ◆ Standard configuration allows:-
 - 5 Digital inputs.
 - 1 Analogue input, including external sensor power.
 - 1 Digital Output.
 - 1 Serial Modbus input (UltraSonic) with 'sleep' facility.
- ◆ Other I/O configurations available to request , inc SDI-12 & PSTN.
- ◆ Low power GSM communications, can be connected 24hrs a day and still achieve 2 year battery life.
- ◆ Long battery life from dual internal battery packs.
- ◆ Wide range of protocols including Dynamic Logic FSK, Modbus, DNPv3 (handling daily flow and overflow totals)
- ◆ Sequences available for overflow calculation including total daily overflow and flow volume, calculated from the weir gate level.



The **D7160 *ex*** has the ability to run a low power CSO sequence.

The **D7160 *ex*** will calculate the actual flow*, total flow volume, total overflow duration and number of overflows.

Using this data the **D7160 *ex*** will calculate and store daily totals for flow volume, overflow duration and number of overflows.

* = Flow is calculated from a level input and the correct weir/channel geometry. Three options are available:-

Rectangular

Triangular

Bespoke - customer look up table.

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