



P2W


Communicator & Water Flow Data Logger with internal GSM modem


The **P2W** is an integrated data logger, GSM modem and antenna packaged in a single enclosure rated to IP68. The internal GSM modem provides a reliable means to communicate data by SMS messages as a part of an AMR or an M&T system for industrial water metering. **P2W** belongs to a new generation professional communicators based on integrated intelligent i2-GSM™ modem technology developed by Iskraemeco. The unit is manufactured in compliance with the ISO 9001 and designed according to Iskraemeco's own stringent internal standards derived from extensive field and manufacturing experience.





-  2 channel pulse input


-  Data logger

-  Event Log

-  Low power AMR by SMS

-  Internal clock

-  Local reading/programming

-  Protection level

- Automatic Meter Reading for industrial water metering
- Integrated GSM modem for remote communication
- Low power operation for extended battery life
- Profile logging of up to two input channels
- Physical tamper detection and alarming
- Local programming and reading via IR interface using an HHU
- Ambient temperature monitoring and logging
- Sturdy weatherproof housing for ground installation

FUNCTIONAL AND TECHNICAL FEATURES

Data logger

The P2W counts and stores the pulse input totals in an on board non-volatile memory.

- Configurable logging interval between 5, 15, 30, 60 minutes or 24 hours
- Typical storage capacity in excess of 70 days of 30-minute data per channel
- Ambient temperature logging
- Integrated Real-Time Clock (RTC) providing up to 5 configurable schedules to be defined selecting when and what captured data is transmitted

Inputs

- Two pulse inputs capable of detecting the transitions between the open and closed states of single-pole voltage-free contacts for direct interface with up to two utility meters
- Reed switch or solid state pulse type inputs are accepted
- Pulse counting of both inputs at a maximum frequency of 25Hz
- Any of the pulse inputs can be configured as a tamper input for e.g. connection presence monitoring

Event log

Several operational events are logged continually with configurable triggering of automatic alarm or error messages via SMS.

Events monitored include:

- GSM network performance
- SMS message transactions
- Battery status
- Tampering
- Leakage detection
- User session statistics

Infrared optical communication port (IEC 62056-21)

- Local data read-out of the historic records for each input channel
- Local configuration of the unit during installation or maintenance

AMR communication interface

- Integrated GSM Dual band 900/1800 MHz modem for a remote transmission of the current readings of both data channels and temperature in an SMS message
- High performance internal antenna
- Scheduled data transmissions with configurable start time and period
- On-demand data transmissions

Power supply

- Factory supplied lithium battery 3.9 V, size D
- Estimated battery life in excess of 5 years assuming one SMS transmission per day
- Easy replacement of the battery on site

Installation & commissioning

- Ground level mounting of the unit (preferred) in existing pits with the use of special adaptors
- Field initialisation and programming of the unit using an HHU or laptop

Enclosure

- Polycarbonate casing with a sturdy cover made of durable polypropylene
- IP68 protection level against dust and water penetration
- Supplied with an input cable according to the customer's specifications
- A range of adaptors is available for the installation of the unit in existing pits

Protection and safety

- Sealed unit cover capable of withstanding a load of over 5 tons
- Protected against unauthorised access by the need of a special tool for the cover opening

Accessories

- MeterRead software application for Win CE compatible Hand Held Units
- IR optical probe

Number of pulse inputs.....	2
Switch on resistance.....	< 10 ohms
Switch off resistance.....	> 1 Mohm
Mutual channel isolation.....	2500 VDC
RTC accuracy.....	± 10 ppm with GSM network synchronisation
EMC.....	EN 61000-6-2 & EN 61000-6-3
RF EM field.....	10 V/m (0.1 - 1GHz)
Operating temp. range.....	-20 °C ... +55 °C
Storage temp range.....	-25 °C ... +75 °C
Ambient humidity.....	<75 % annual mean
Dimensions (OD x Depth).....	149 x 115 mm
Mass.....	approx. 0.40 kg

DEVICE TYPE DESIGNATION

P2W-K17V02

- P2** – Communicator & Data Logger
W – Water meters
K17 – IR + GSM communication modules
V02 – 2 pulse inputs

OVERALL DIMENSIONS (mm)

