Wireless Data Solutions Platform

Key Features

- **BRIDGE** - Connects RS232/RS422/RS485 sensor outputs to WiFi 802.11 b or g compatible networks or Ethernet 10/100 Base-T networks
- **PROCESS** - Full PC with low power ARM processor
- **STORE** - 4 GB data storage on SD flash memory
- **STREAM** - Easy to use, web browser interface compatible with most devices
- 20 Hz intelligent sensor serial data input
- **Plug & Play** - No programming knowledge required
- Extremely cost effective

MetStream is a product designed for use in meteorological, industrial and many other applications that allows users to connect an intelligent serial device to a network with unlimited scaling capability using modern communications protocols. Data can then be accessed practically anytime, anywhere using a web browser*. MetStream provides a Linux-based computer in a compact housing with only 3 W of power consumption along with robust surge and EMC protection measures. Data from intelligent serial devices can be sampled at rates up to 20 Hz for long periods of time. All of the settings and features of MetStream are available via a web browser interface for maximum compatibility across devices.

MetStream offers a platform agnostic and convenient graphics user interface to configure, visualise and store data locally or over the internet.

*Internet connection required.

**Electrical**

- **Power requirements**
  - 9-30 VDC
  - 3 Watts maximum at 12 VDC MetStream only (WiFi on)
  - 7.2 Watts maximum at 12 VDC including external sensor(s)

- **Power over Ethernet**
  - Built-in receiver (IEEE 802.3af-2003)

- **Measurement**
  - 20 Hz maximum data input rate

**External Interfaces**

- **Digital**
  - RS232, RS422 or RS485 communications via plugable terminal strip

- **WiFi**
  - 802.11 b (11Mb/s) or g (54 Mb/s) speeds to connect to a customer supplied computer, device or network

- **Ethernet**
  - 8P8C format, 10/100BASE-T speeds to connect to a customer supplied computer, device or network

- **LEDs**
  - 1 for power, 1 for status

- **Power**
  - DC in (if not using PoE)

**Outputs**

- **Hardware Platform**
  - Linux Operating System running on ARM processor

- **Timing**
  - Real Time Clock onboard.
  - PTP (Precision Time Protocol) & NTP (Network Time Protocol) supported over Ethernet.

- **Data Storage**
  - 4 GB storage, suitable for 1 week @ 20 Hz data rate or 1 month @ slower speeds.

**Mechanical**

- **External Dimensions**
  - 125 x 111 x 34 mm (antenna folded)
  - 205 x 111 x 107 mm (antenna extended)

- **Material**
  - Aluminium / Plastic

- **Weight**
  - 280 grams

**Environmental**

- **IP Rating**
  - 40 (indoor use), 65 (outdoor enclosure)

- **Operating Temperature**
  - -20 to + 70° C

- **Storage Temperature**
  - -40 to + 80° C

- **Operating Humidity**
  - < 5% to 95% RH

- **EMC**
  - BS EN 55024:2010 and 55022:2010

- **FCC**
  - CFR47 Part 15B

**Operational**

- **Warranty**
  - 12 Months

- **Accessories**
  - Quick start guide, CD, Ethernet Cables, Instrument connector, power adapter

**Optional**

- Thermoplastic enclosure for outdoor use of MetStream
Wireless Data Solutions Platform

MetSTREAM 105

MEASUREMENT > PROCESSING > INTERFACE > NET

- Modem
- Modem
- Wireless or Physical Connection
- Removable Storage
- PC / Mac / Unix
- Server Storage
- Tablet
- Smart Phone
- Internet
- Remote Support
- MetStream Community

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

All dimensions in mm
Drawing representative of MetStream 105
Specifications may be subject to change without prior notice.

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