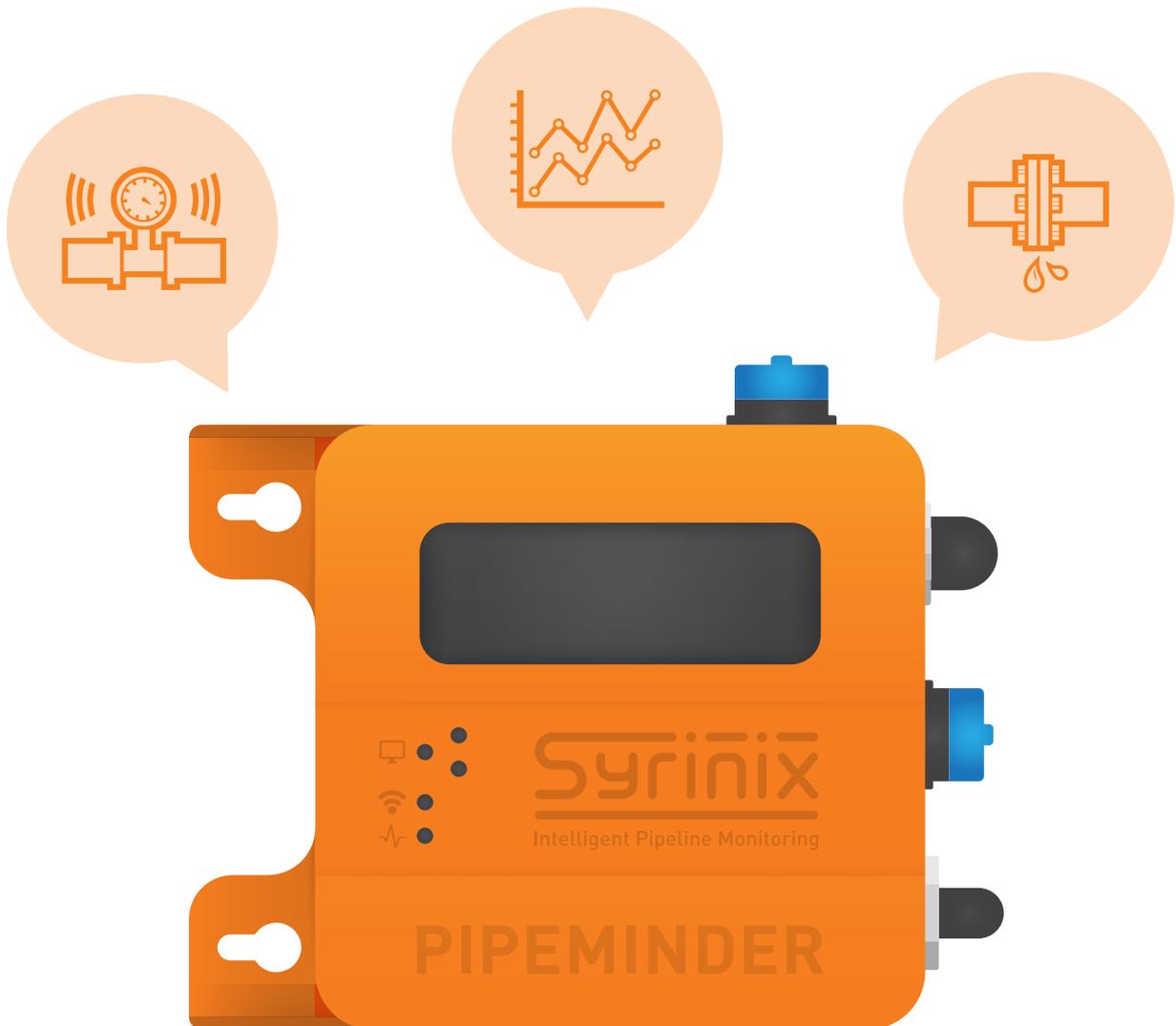


PIPEMINDER **S**

ESSENTIAL PRESSURE AND FLOW LOGGING FOR
TRANSFORMED NETWORK MANAGEMENT



PRODUCT BROCHURE

PIPEMINDER **S**

HIGH RESOLUTION NETWORK INSIGHTS TO SUPPORT OPTIMISATION & CALMING



**DATA
LOGGING**



**ADVANCED
INSIGHTS**



**LEAK
REDUCTION**

PipeMinder-S transforms the way utilities manage their networks by providing high resolution data for informed decision making, mitigating risks, extending asset lifetimes and reducing leaks and bursts.

This **innovative next generation monitoring** solution delivers **24/7 high resolution pressure** and flow data for water supply pipelines. The battery powered system comprises the latest 3G data communication encased in a rugged IP68 enclosure.

Installed across a network, PipeMinder-S provides an innovative **single technology solution** for monitoring anomalous behaviour, network stresses, bursts, pressure transients, and negative spikes most of which are often invisible at lower resolution with basic logging devices. PipeMinder-S enables utilities, for the first time, to better understand and manage their **networks efficiently and effectively.**

SPECIFICATIONS

**BATTERY
POWERED**

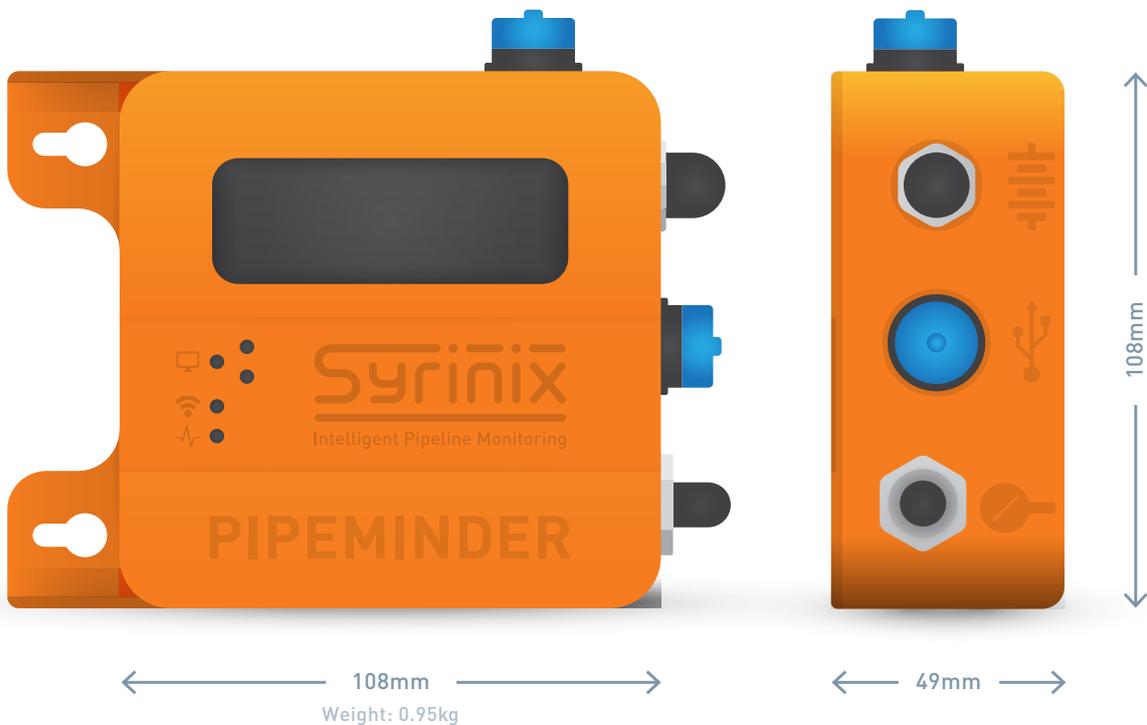
20_{bar}
PRESSURE
TRANSDUCER

3G
SIM CARD

IP68
RATED

128
SAMPLES/SECOND

GPS
TIME & LOCATION
TRACKING



Operating Temperatures

-20 °C to +65 °C

Battery

Lithium-thionyl chloride, 14.4V

Flow Meter Specs

Compatible with pulse output flow meters

Antenna Specs

Various external 3G / GPRS available

Certifications

CE, FCC

FEATURES AND BENEFITS

DATA LOGGING

Daily summary data is uploaded for the **maximum, minimum and average pressure** for each 15-minute period in the preceding 24 hours.

With the PipeMinder-S each 15-minute window value is calculated from the pressure continuously recorded at **128 samples/second** and flow* at 1 sample/second. This highlights the true pressure range exerted on the pipe over the 15-minute period.

High Resolution data is immediately uploaded to RADAR, Syrinix's cloud based platform, following the occurrence of an event to provide insight to the utility, enabling it to transform its approach to network optimisation.

* Flow meter required, measurement rates and resolution dependent upon the flow meter specification

PRECISION DATA

Each unit contains an integrated **GPS antenna** and receiver which records a fixed position and sets the device time upon deployment.

This **precision time stamping** of high resolution data across multiple devices allows events to be sequenced and traced as they progress throughout the network, enabling utilities to locate and trace events and bursts.

Utilities are able to optimise their network, understand anomalies, proactively plan mitigations and reduce operational costs.

EVENT ALARMS

In response to a network event, utilities receive an **immediate email notification**, via RADAR. **High resolution data** is transmitted for the event comprising of before, during and after data sets, allowing network operators to review and analyse the event.

COMMUNICATION

PipeMinder-S provides two-way communication via **penta band 3G** data technology which enables utilities to **remotely configure** devices, request retrospective high resolution data and perform remote software updates.

DEVICES AND ACCESSORIES

Designed for **reliability, accuracy and longevity**, utilities can upgrade firmware over the air, replace batteries and upgrade antennas ensuring that once deployed PipeMinder-S can be left in-situ.





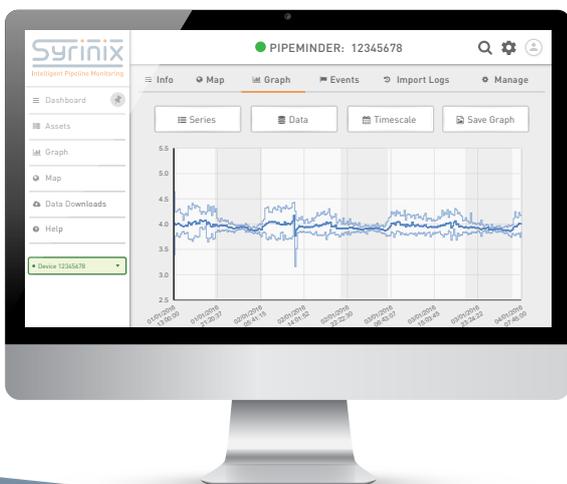
RADAR

THE COMPLETE HIGH RESOLUTION NETWORK INSIGHT PLATFORM

RADAR, a powerful proven secure cloud based platform, providing fully interactive management of all deployed devices.

Accessible from desktop, tablet and mobile devices, RADAR provides utilities with a transformed view of their network.

High resolution data is processed to provide utilities with a user-friendly dashboard displaying aggregated statistical and graphical information from across the monitored network.



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FEATURES AND BENEFITS

RADAR provides remote device **configuration, event location tracking and visualisation**, status alerts as well as advanced, yet easy to use, data analysis tools for plotting and interpreting of the data received.

Collected data is processed through RADAR to help detect and locate the actual cause of network events by tracing their impact through the network for fast and effective mitigation.

Syrinix's S3 score is calculated within the device and displayed via RADAR. The S3 score is a graphical representation of the **severity of damaging transients** that stress a network. Large changes which happen quickly or oscillations result in a high S3 score and will be alerted to the user with the event data automatically uploaded to RADAR.

Google Maps allows deployed units to be easily located and viewed within RADAR. Utility **GIS data** can be uploaded and overlaid within RADAR for a clearer understanding of the units' locations.

RADAR provides **smart event alerts** to ensure immediate notification of the critical events without overloading the user with non-essential issues.

Paired with PipeMinder-S, RADAR gives the **clearest, most accurate insight** of network activity, making it the obvious choice to support optimisation and calming of the network.

Find out how **PIPEMINDER-S** can transform the way you manage your supply pipelines today

Visit syrinix.com for more details or call us on +44 1953 859 128

About Syrinix

For over 12 years Syrinix has been leading the way in intelligent pipeline monitoring.

Syrinix's suite of innovative PipeMinder solutions covers both water and waste water pipelines.

By combining high resolution data with automated analysis and alerts, global utilities are now able to increase the resilience of their networks, including reducing leakage and bursts and extending asset lifetimes, all whilst lowering operating costs.

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