MESURA METERING

A Cavagna Group Company

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PRODIGI

Ultrasonic Smart Gas Meter

Game Changer for Propane Marketers

- Remote monitoring
- Provides a familiar customer interface similar to other utilities
- Optimize efficient deliveries
- Adds control to overall storage efficiency

Accuracy & Durability

The Ultrasonic Gas Meter uses a static measurement technology “that” does not include any moving mechanical componens that wear out over time. That “Features”:

- minimum pressure loss
- high level of accuracy

Ultrasonic Flow Sensor

The Prodigi uses an innovative high-performance ultrasonic sensor by Panasonic, designed to accurately measure the volume of LPG/Propane.

Step-motor Valve

The Prodigi’s step-motor valve by Panasonic allows the flow of gas to be shut-off remotely. The step-motor valve is located after the gas inlet. Being able to remotely shut off the valve, eliminates the need to physically send a service technician to manually shut off the gas flow. This can be useful for economic benefits where the gas company does not have to send a service technician to the location. Thanks to this valve, the gas company can close the gas flow remotely of a specific meter and avoid entering the property of the end user.

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Ultrasonic Gas Meter

Local User Interface

1. LCD Display with volume displayed in cubic feet or meters with 3 decimals and specific icons (list available on request).

2. 2 capacitive buttons for navigation through recorded values.
Right Button: passing through screens
Left Button: to activate specific functions

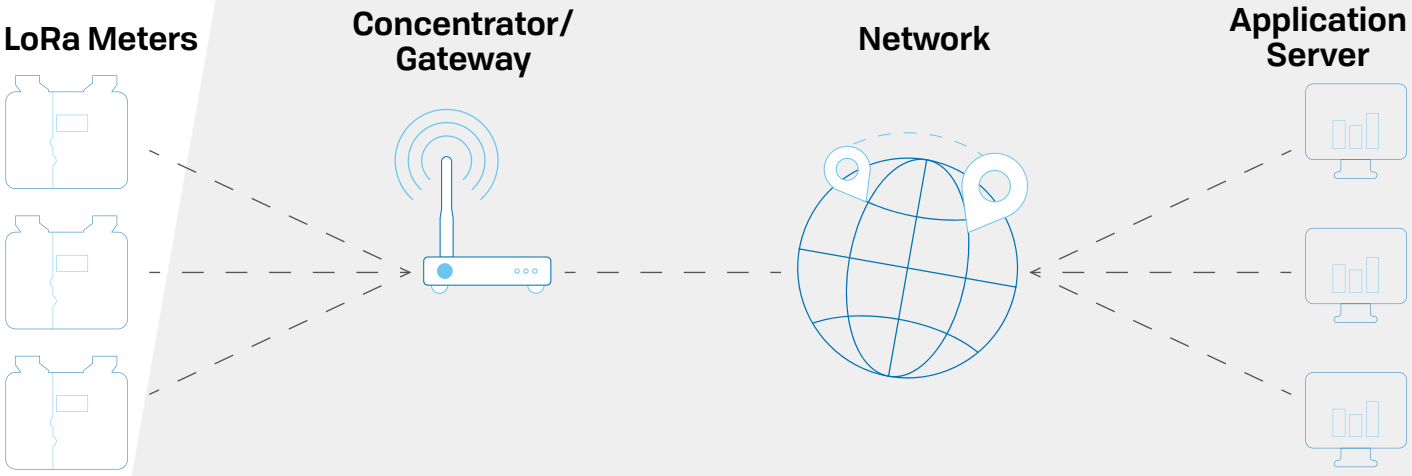
Communication

The Prodigi is measuring gas flow and communicates the data to you, allowing you to provide and deliver a reliable quality product efficiently and accurately and maximizes their resources.

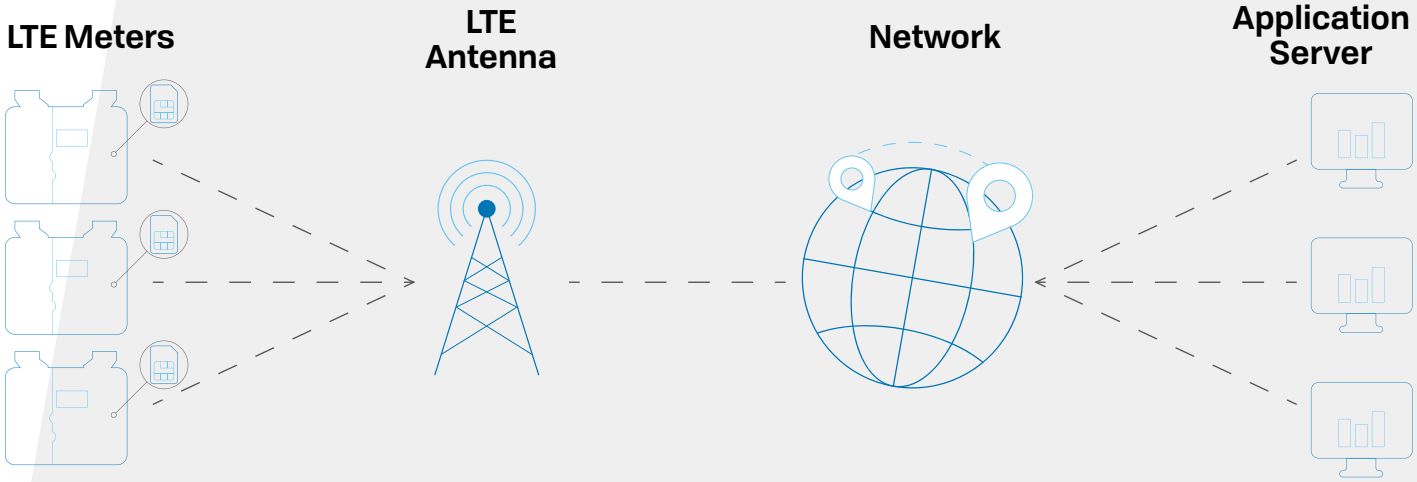
How does it work?

1) Gas Measurement: The gas flow is measured as it passes through the ultrasonic sensor.
2) Values transcription: The measured values are encrypted and decrypted by standard communication protocol through Device Language Message Specification (DLMS).
3) Data transmission: The measurement signals are then stored until the Prodigi communicates the values to OTUS, (Cavagna Group's asset management platform), using LoRaWAN, NB-IoT or LTE Communication. This data transmission happens electronically, without the need of someone physically reading the meter.

LoRaWAN



LTE/NB-IoT



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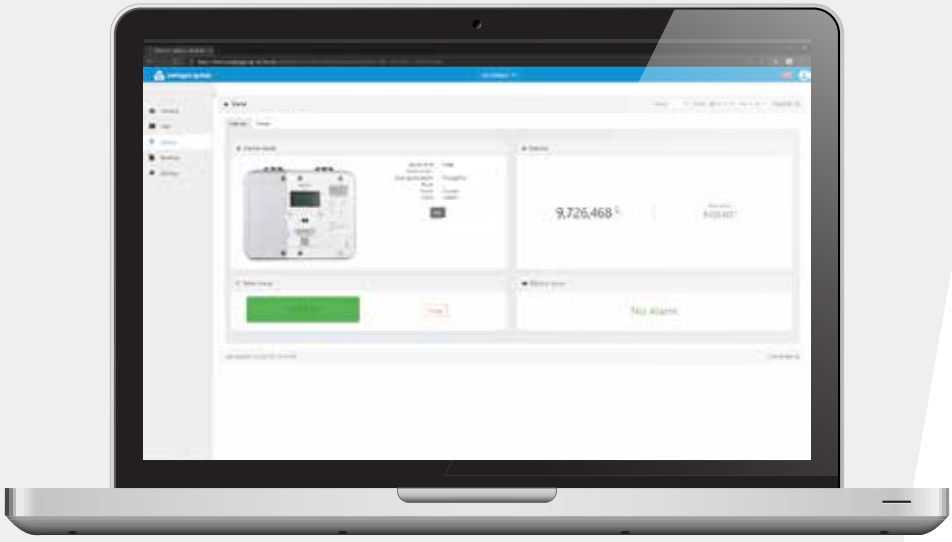
Otus

Powered by webvision

OTUS acts as a collection centre for all of the information that Prodigi is able to acquire and transmit in encrypted form.
“Otus” it is a cloud based platform that allows to:

- collect historical data of gas consumption and create personalized reports.
- download the historical data with PDF or CSV
- remote close the shut-off valve
- place the device in your own map
- analysis of historical consumption trends

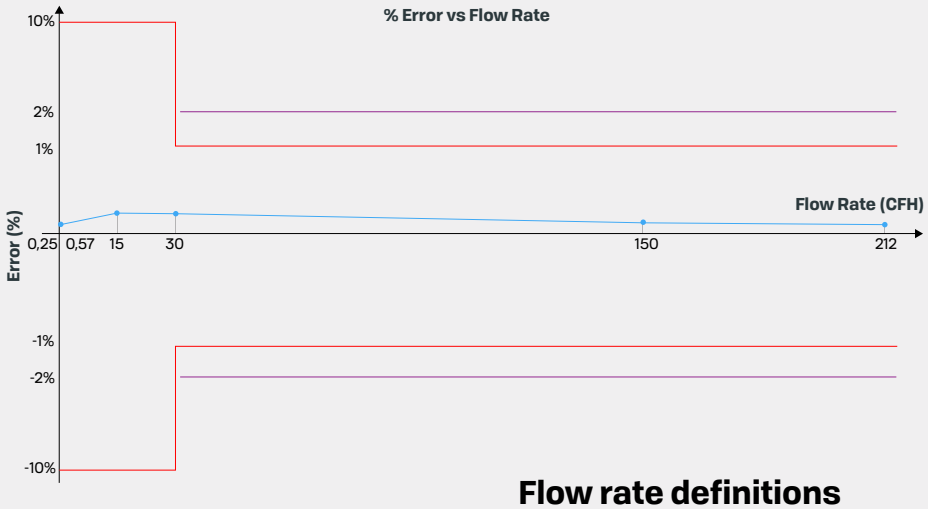


Easy remote monitoring thanks to the Cavagna Group Digital Platform

Ultrasonic Gas Meter

Performance Ultrasonic Smart Meter

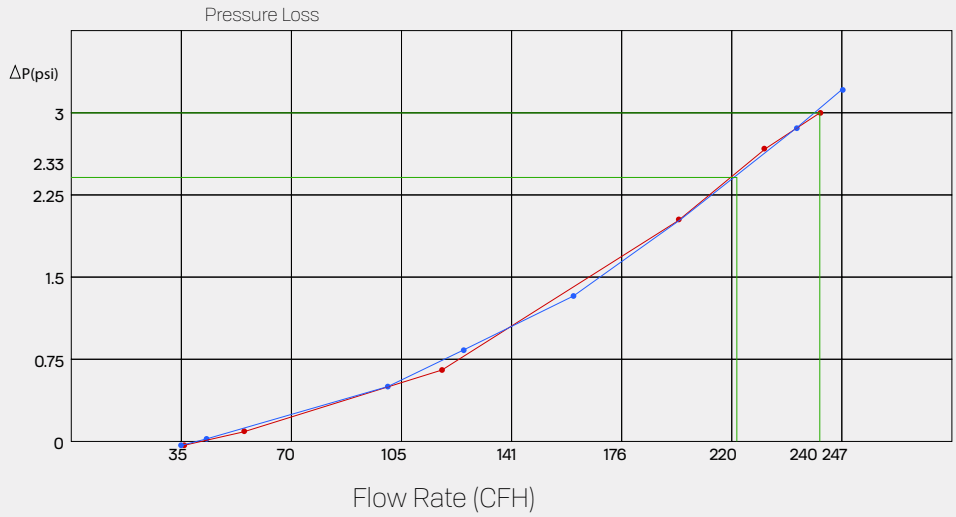
Accuracy Curve



Flow rate definitions

Pilot low rate	0.25CFH(0.0007 m^3/h)
Qmin	0.57CFH(0.016 m^3/h)
Qt	15CFH(0.42 m^3/h)

Pressure Loss Curve



Ultrasonic Gas Meter

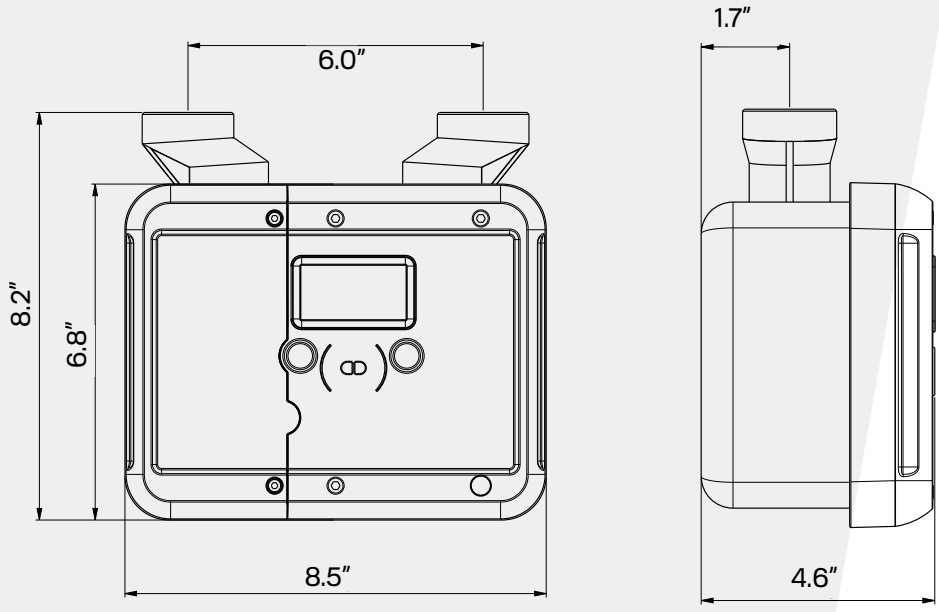
Technical Features

Part Numbers	PRODIGI US1 LoRaWAN 99F3900024	PRODIGI US2 NB-IoT/LTE CAT-M 99F3900023
Class	175	
Measuring Gas	LPG/Propane	
MAOP	4.35 psi (30 KPa)	
Working Temperature	- 13° F ÷ +125° F / -25°C ÷ +52°C	
Temperature at base conditions	60° F	
Load loss	≤ 0.03 PSI - ≤ 2 mbar (at 240 ft³/h)	
Humidity	95%	
Connection threads	20LT	
Casing Material	Stainless Steel	
Protection Grade	NEMA-4	
Local Interface	Infrared optical door ZVEI	
Communication protocol	available in UDP/TPC	
UL Approved	Flammable Gas Meter	
Battery Life	Metrologic battery: 15 years Communication battery (replaceable through the cover): *	

*According to the working conditions

Overall Dimensions

Weight /
Peso =
4.4 lbs
(2.0 Kg)



4MM1842N – Rev.3.4 ENG – 02/25

Ultrasonic Gas Meter

Spare Parts

Communication Battery: 30.0.110.2906

“O” ring: 04.0.110.5727

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