



Gallus & RF1 Pay

Gas Smart Payment Meter - NFC and STS with eTC

A member of the Eclipse family, Gallus & RF1 Pay are the latest Smart Card Smart Payment meter in Itron's Revenue Collection Systems. The Gallus & RF1 Pay with an internal valve are considered an ideal entry point into the automatic meter reading world.

KEY BENEFITS

- » NFC (Card and Smartphone) capabilities
- » STS with 12 buttons keypad
- » Self-billing meter
- » Pre or Post-Payment billing mode
- » 2-way communication
- » Electronic Temperature Compensation (optional)
- » Internal valve
- » Field swappable battery
- » Multiple fraud detection

THE SYSTEM

- The Gallus & RF1 Pay meter feature the Gallus & RF1 meters, which has been installed in more than 30 million locations worldwide. It has been enhanced with a secure NFC/STS token.
- The microprocessor-based Smart Card provides low-cost, reliable and secure two-way communication between the point of sale (ATM, PC, self-service POS, customer portal on smartphone, GSM-1way) and the installed meter.
- The revenue collection module offers innovative and customer appealing functions, such as no-disconnect periods, self-decommissioning, emergency credit and data logging capability. It also provides leak and fraud detection, overflow control and broad tariff flexibility.



The Gallus & RF1 Pay are part of the Eclipse Enterprise Edition multi-resource revenue collection system. This system provides efficient revenue collection, and enhanced data capture and reporting, for both electricity and gas utilities.

ELECTRONIC TEMPERATURE COMPENSATION (OPTIONAL)

The temperature converted volume shown on the electronic index allows to bill the consumer more accurately.

STANDARDS & COMPLIANCE

The meter is compliant with the following directives, standards and norms:

- » MID approved
- » EN 1359 and OIML standards
- » ISO 9001 certified
- » ATEX approved
- » IEC 62055-41:2014 (STS)

AVAILABLE TOOLS

- » MTT, metrology test tool to connect to test benches (NAMUR norm)
- » RCT, recalibration tool (non MID) through RMA port
- » FET, field engineering tool, on smartphone for meter maintenance

DATA LOGGING & CONFIGURATION

» Data Logging:

- Readings including the last 12 monthly data (1st of each month at midnight);
- Readings including the last 8 weekly data (each Monday at midnight);
- Readings including the last 30 daily data (each day at midnight);
- Remaining battery capacity at loading time;
- Last 10 alarm/error logbook entries with timestamps;
- Last 10 opening and closure with timestamps;
- Last 10 credit loadings with timestamps.

Technical Specifications

» No Disconnect: The meter can be configured to avoid disconnection during specified periods. This can include defined times of day, certain days, weekends, or specific periods of the year.

Self Decommissioning: An automatic "close down" action allows the utility or consumer to decommission the account directly. No onsite visit from the utility is required.

BILLING METHODS

Itron's Smart Payment solution allows **automated data collection** at the time the consumer is toping up its energy credit. In accordance with the local regulations, the meter can be set to different billing modes:

- » Regular Prepayment: By loading the Smart Card upfront, the consumer pays for gas provision before consuming.
- » Pay-As-You-Go: In this typical postpayment mode, the end customer is charged for the consumed gas after a

certain period based on

volume or time.

SAFETY AND SECURITY

- » Metrological and functional parts of the meter protected with separate seals.
- » Leak detection: A

leak test is conducted every time the gas valve opens to ensure other gas appliances have not been left on. The valve automatically closes if the installation is not tight.

- » Alarms (valve closes automatically):
 - Open cover alarm
 - Overflow alarm
 - Backflow alarm
 - Battery low (threshold configurable)

Parameter	Value
Gas type	Natural gas, air, propane, butane, nitrogen and all non-corrosive gases
Cyclic volume	1.2 dm ³ (Gallus) and 2 dm ³ (RF1)
Measuring range	G1.6 Qmin 0.016 m ³ /h Qmax 2.5 m ³ /h G2.5 Qmin 0.025 m ³ /h Qmax 4 m ³ /h G4 Qmin 0.04 m ³ /h Qmax 6 m ³ /h G6 Qmin 0.06 m ³ /h Qmax 10 m ³ /h
Accuracy	Class 1.5
Standards / Directives	Directive 2014/32/EU (MID), Directive 2014/34/EU (ATEX), Directive 2011/65/EU RoHS; Conformity with EN1359:1998-A1:2006 IEC 62055-41:2014 (STS)
Maximum operating pressure	0.5 bar (0.1 bar for HTL version) Valve operation up to 0.2 bar
Temperature range	Operating -25°C to +55°C Storage -30°C to +70°C
Pressure drop	Under 2 mbar
ATEX approval	Zone 2: 😥 II 3 G Ex ic IIA T3 Gc X.
Humidity	Max 93% RH at 40°C
Ingress protection	IP54 minimum protection level (according EN60529)
Casing	Sheet steel with grey white painting (RAL 9002)
NFC tag norm	2K cards ISO-14443
Battery	Lithium battery with 10 years average life time*



Gallus Pay DN25 with Card



Gallus Pay DN25 with Smarphone

* Battery life time may vary depending on usage

RELATED PRODUCTS

Display

Two-way multi-resource prepayment system: Eclipse Enterprise Edition (3E)

Dot matrix



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