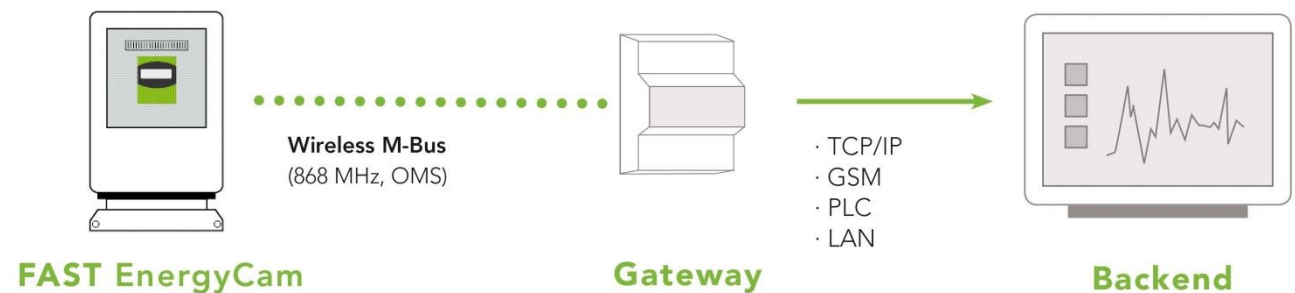


## FAST EnergyCam RF

### Datasheet



FAST EnergyCam RF uses a camera and OCR (optical character recognition) technology to take regular meter readings and transmits the resulting data wirelessly.\*



### Applications

FAST EnergyCam RF is the ideal device for taking automated readings from analog utility meters such as electricity, water and oil meters. It is aimed at energy suppliers, utility meter operators, commercial and industrial users, municipal property managers, and smart home system providers.\*



Ferraris meter



Water meter



Oil meter

### Ordering Information

- Art. Nr. 1000: EnergyCam RF
- Art. Nr. 1010: EnergyCam RF with external antenna
- Art. Nr. 1072: EC1 AA Battery (up to 15 years durability)
- Art. Nr. 1073: EC1 CR 2450 Battery (up to 1.5 years durability)
- Art. Nr. 1063: EC1 USB Interface (for configuration)
- Art. Nr. 2001: Oil Meter Adapter
- Art. Nr. 2002: Water Meter Adapter 60/10 mm (for many residential water meters\*)
- Art. Nr. 2011: Water Meter Adapter 60/4 mm (for many bulk water meters\*)
- Art. Nr. 2135: 3M VHB spare cleaning cloth
- Art. Nr. 2139: 3M VHB spare adhesive pad 30/20 mm

\*Latest list of compatible gateways and supported meters: [www.fastforward.ag/eng/#Downloads](http://www.fastforward.ag/eng/#Downloads)



### Technical Specs

#### Data transfer

Radio	Wireless M-Bus, 868 MHz, OMS, T & S Mode selectable, 10 dBm RF power, RF range up to 300m (Art. Nr. 1000) resp. 1,500m (Art. Nr. 1010), calculated assuming line of sight
Interface	Slide-in module for 1) external battery Art. Nr. 1072 , 2) internal battery Art. Nr. 1073, 3) USB Interface Art. Nr. 1063; EC Win software for configuration available for download

#### Electrical properties

Power supply	EC1 external AA lithium thionyle battery 3.6V, 1600mAh Art. 1072 or EC1 CR 2450 lithium battery 3V Art. 1073
Power consumption	15-100 mA resp. 3 µA closed current in power down mode
Operating voltage	3.0 to 3.6 VDC

#### Reading

Optical sensor unit	Camera module with mirror lens and LED lamps for mechanical counters up to 50 mm wide.
Font	White digits on black or black digits on white; minimum digit height: 5 mm; up to 8 digits with up to 1 decimal places
Accuracy	Meter reading recognition of supported meters with a probability of 99.6% at an accuracy of +/- 1 m <sup>3</sup> resp. kWh

#### Mounting

Fixture	3M VHB 4932 bonding tape, 392 mm <sup>2</sup> bonding area, can be removed without leaving traces
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#### User interfaces

Display	8 digits 7-segment-LCD
Operation	Button

#### General

Metering tech.	Non-reactive to the specific characteristics of the meter type
Operating temperature	-10 to +50 °C
Protection	IP 40
Compliance	CE
Material / housing	Polycarbonate, PMMA
Dimensions	Art. Nr. 1000, 1010: 55 x 47 x 15 mm; Art. Nr. 1010: 2.5m cable; Art. Nr. 1072: 30 x 30 x 20 mm, Art. Nr. 1072: 0.2m cable
Weight	Art. Nr. 1000: 28g; Art. Nr. 1010: 68g; Art. Nr. 1072: 33g; Art. Nr. 1073: 6g