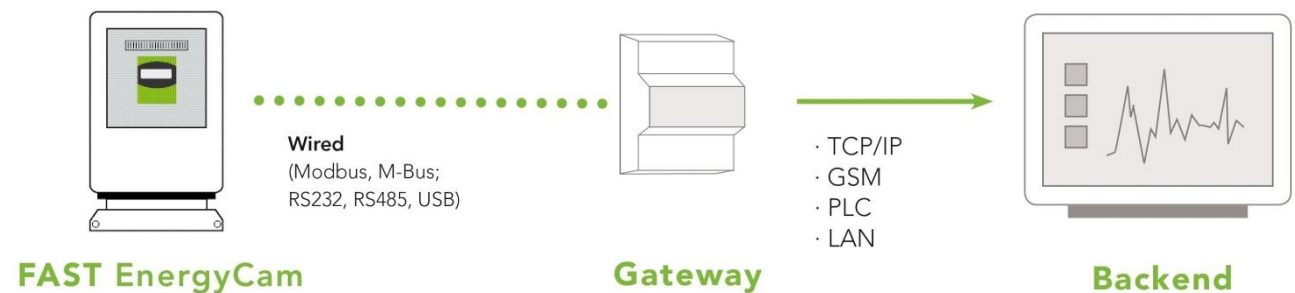


FAST EnergyCam

Datasheet



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



Applications

FAST EnergyCam 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. 1003: EnergyCam
- Art. Nr. 1062: EC1 M-Bus Interface
- Art. Nr. 1064: EC1 RS485 Interface
- Art. Nr. 1068: EC1 Interface Cable
- 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



Technical specs

Data transfer			
Protocol	Modbus RTU or M-Bus		
Interfaces	Slide-in module for Communication Interfaces: Art. Nr. 1062 EC1 M-Bus Interface, Art. Nr. 1064 EC1 RS 485 Interface, Art. Nr. 1268 EC1 Interface Cable, Art. Nr. 1263 EC1 USB Interface (for configuration)		
Electrical properties	M-Bus Interface Art. Nr. 1062	RS 485 Interface Art. Nr. 1064	Interface Cable Art. Nr. 1068
Power supply	4.75 to 24 VDC	4.75 to 24 VDC	3.0 to 3.6 VDC
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 50mm 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 m³ resp. kWh		
Mounting			
Fixture	3M VHB 4932 bonding tape, 392 mm² bonding area, can be removed without leaving traces		
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. 1003: 55 x 47 x 15 mm; Art. Nr. 1062, 1063, 1064: 70 x 40 x 20 mm Cable length Art. Nr. 1062, 1063, 1064: 1.9m; Art. Nr. 1068: 2.0m		
Weight	Art. Nr. 1003: 27 g; Art. Nr. 1062: 53 g; Art. Nr. 1064: 54 g; Art. Nr. 1068: 20 g; Art. Nr. 1063: 48 g		