Energy Server Com'X 200
Functions and characteristics

Energy Server Com'X 200

Energy Server Com'X 200 - top view

Ethernet GPRS data logger function

The Energy Server Com'X 200 collects and stores WAGES consumptions (Water, Air, Gas, Electricity, Steam) and environmental parameters such as temperatures, humidity, and CO2 levels in a building. Data is periodically transmitted as a report to an Internet database server.
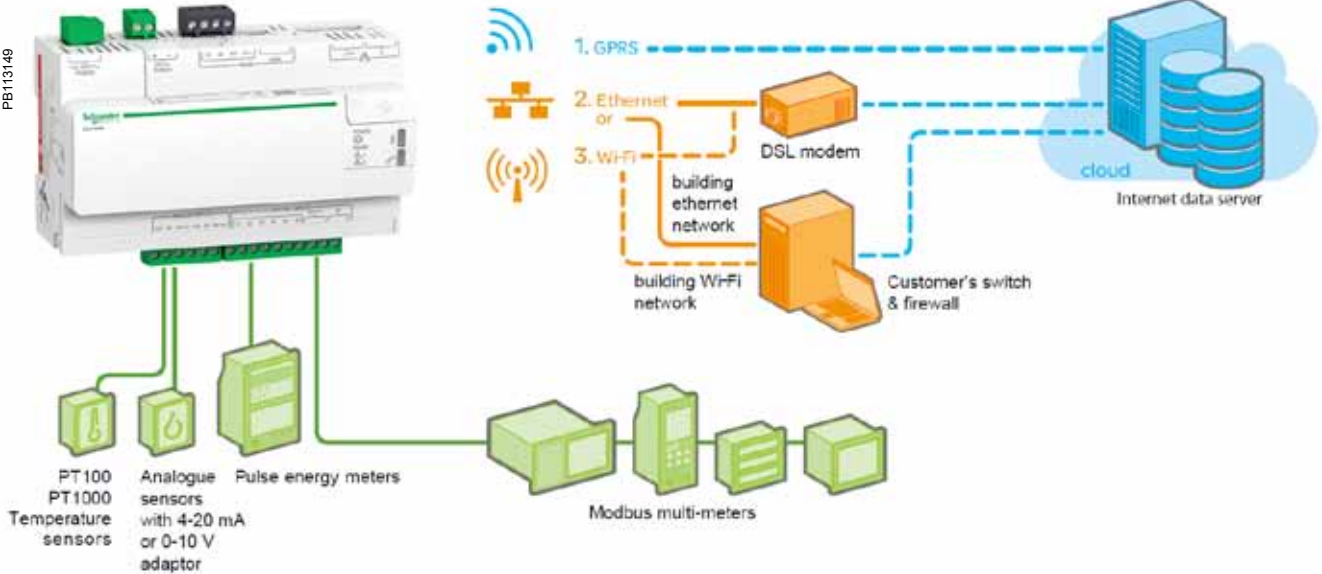
Data processing and display

Once received by the server, the data is ready to be processed and displayed as web pages through web services provided by Schneider Electric, such as StruxureWare Energy Operation and StruxureWare Energy On Line.

■ Energy Operation
■ Energy Online
or by any private energy management platform.

Architecture

Access to the web: choice of 3 media

Features

■ From a simple metering installation with 1 device to large metering systems, Com'X 200 collects data from any Modbus TCP or serial devices, from any pulse meters, actuators and analogue sensors
■ Automatic discovery of connected Modbus devices
■ Connectivity to the cloud through Ethernet, Wi-Fi and GPRS
■ 2 Ethernet ports to separate upstream cloud connection from field devices network
■ Protocols: HTTP, HTTPS, FTP, SMTP with Proxy management
■ Data export: Native connection to Schneider Electric Service platforms (Energy Operation, Energy Online)– CSV file export for other database servers
■ Setup through convenient built-in web pages
■ Compliant with electrical switchboard environment (Temperature , electro magnetic compatibility)
■ Storage of data in case of communication failure
■ Local backup of the configuration parameters

When associated with SE Services:
■ Remotely managed (firmware upgrade, configuration backup, troubleshooting, parameters setting
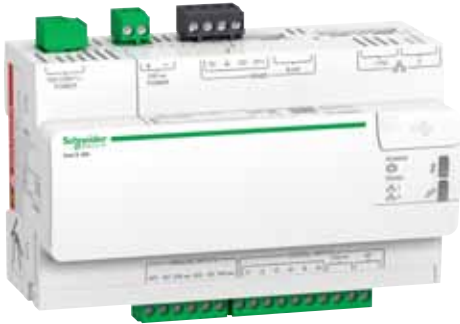■ GPRS contract management with SIM card provided

Part Numbers

Energy Server Com'X 200	
Com'X 200 Ethernet data logger	EBX 200
Wi-Fi USB stick	EBXA-USB-WiFi
GPRS modem with SIM card	EBXA-GPRS-SIM
GPRS modem without SIM card	EBXA-GPRS
External GPRS antenna	EBXA-ANT-5M

Energy Server Com'X 200

Energy Server Com'X 200 with the front face in Open position, GPRS modem and Wi-Fi USB stick are connected.

GPRS modem (antenna in folded position)

External GPRS antenna

Ethernet GPRS data logger

Characteristics	
Inputs	
6 Digital inputs	
Max impulse frequency	25 Hz (min duration 20ms) IEC 62053-31 Class A
Power Supply	Provided by Com'X 200: 12 V DC – 60 mA External: from 10 to 30 V DC
2 Analogue inputs	
Sensor compatibility	PT100 – PT1000 2-wires probes (accuracy 1%) Sensors with 4 -20 mA or 0-10 V output (accuracy 0.5%)
Power supply	Provided by Com'X 200: 24 V DC - 50 mA per input
Communication	
Meter Network	1 RS485 Modbus serial port, RJ45 connector, for 32 Modbus components maximum
Configuration / Data transfer	2 Ethernet ports RJ45 10/100 Base, DPWS ready
Ethernet 1	PoE class 3 (802.3af), DHCP client
Ethernet 2	DHCP client or server
Protocols	IPv4, IPv6 – HTTP, HTTPS, Modbus TCP/IP
USB Ports	2
For memory stick	USB port on front face
For Wi-Fi stick	USB port 2 behind cover
LED indicators	11
	Power/ Boot status
	GPRS modem status and signal level
	Modbus communication
	Ethernet communication
	Wi-Fi communication mode (Access point / Infrastructure) and status
	Digital inputs status and pulse reception
Power Supply	
AC	100-230 V (+/- 15%)(50-60Hz)
DC	24 V (+/- 10%)
Max power	26 W max
Mechanical	
IP	Front face IP40, terminals IP20
Dimensions (HxWxD)	91 x 144 x 65.8 mm
Weight	450 g
Environment	
Operating temperature	-25 to +60°C (-13 to +140°F)
Storage temperature	-40 to +85°C (-40 to +185°F)
Humidity	5 to 95% relative humidity (without condensation) at +55°C
Pollution	Class III
Safety standards / regulation	
International (CB scheme)	IEC 60950
USA	UL508
Canada	cULus 508
Europe	EN 60950
Quality Brands	
	CE, UL

Wi-Fi USB stick