

# Ping & Reach5

Advanced IOT Gateways and web motoring system



The Ping IoT Gateways, entirely developed by Project Engineering, are used to connect field devices (e.g., machine controllers) to remote monitoring systems on the cloud. The Gateways continuously acquire data from the field devices through RS485 or Ethernet using Modbus or Project Engineering PEMS protocol. Data are recorded on an internal database and are sent through MQTT protocol to "Reach5", the remote supervision system provided by Project Engineering. Physical connection to the supervision system is, depending on the model, Ethernet, WiFi or LTE (modem with internal SIM). The Gateways also support other protocols, like Bacnet, SNMP, Modbus server, which makes them the ideal solution for supervision systems.

Main software features are:

- Internal web server for gateway configuration
- Remote Software upgrade
- File transfer management
- Sampling rate programmable for each channel
- Adaptive sampling rate (dynamic optimization)
- NPT protocol for clock synchronisation

## The Gateways family

Ping is an industrial gateway available in 3 versions: V2 dedicated to local supervision, V1 and V3 with also the connection to Reach5. All versions are fanless and have an internal buffer to store data in case of cloud connection failure and they can handle up to 8 devices.

Ping XS is a compact and cost-effective gateway ideal to connect a single device; available boxed or in open frame version.

### PING AND PING XS



Function	Ping V1			Ping V2	Ping V3			Ping XS
Ordering code	08CB3-00-00-01	08CB3-01-00-01	08CB3-01-01-01	08CB3-00-00-02	08CB3-00-00-03	08CB3-03-00-03	08CB3-03-03-03	01CB4ETH 01CB4ETHBOX
485	2			2	2			1
Ethernet	2			2	2			1
WiFi		1	1			1	1	1
Modem			1				1	
Field bus PEMS (PE protocol) client	X			X	X			X
Field bus MODBUS client	X			X	X			X
MAX devices	8			8	8			1
Reach5 (MQTT)	X				X			X
Modbus RTU server	X			X	X			
Modbus TCP server	X			X	X			
PEMS 485 server	X			X	X			
PEMSTCP server	X			X	X			
SNMP V1, V2c, V3				X	X			
Bacnet IP				X	X			
OPC UA				X	X			

Mounting: wall mount or DIN rail

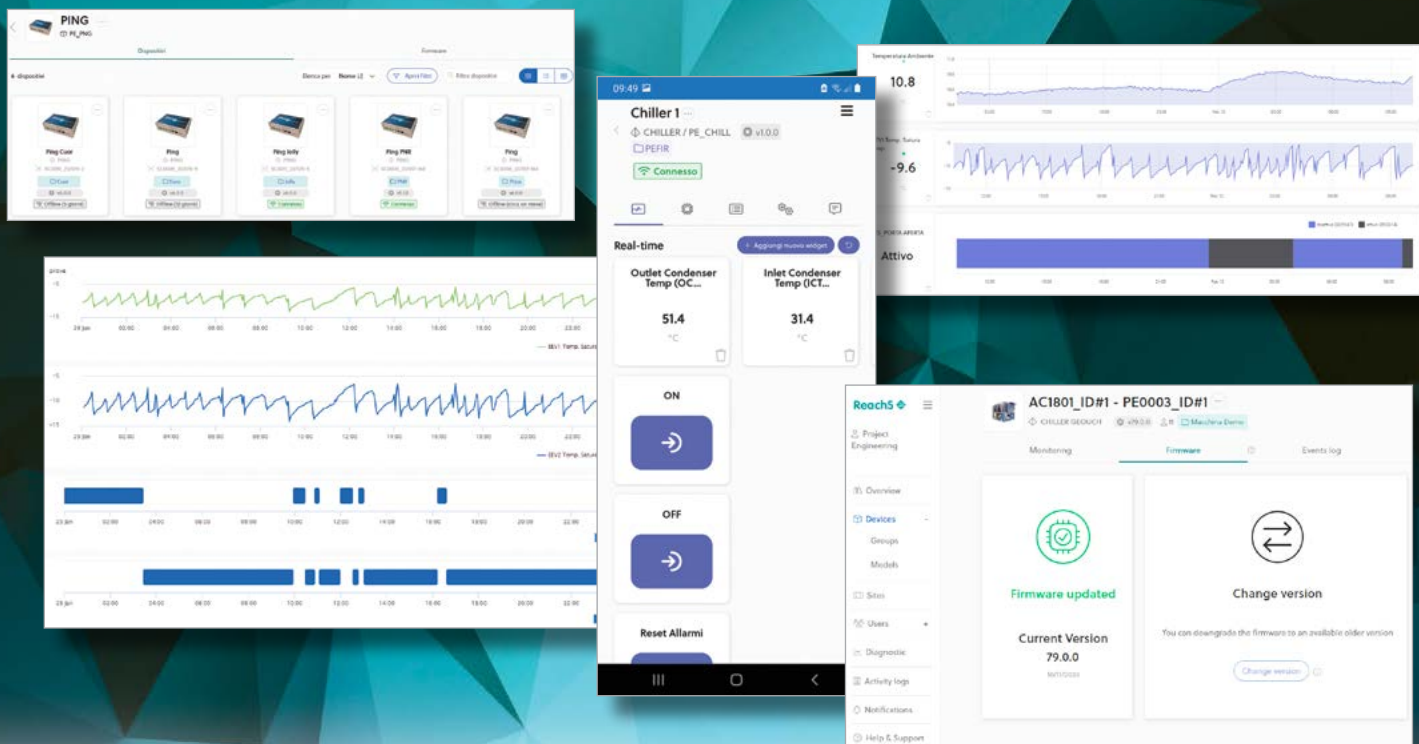




## Typical architecture of plant monitoring and data acquisition







HVAC/R



Process cooling



Automotive



Naval



Railway



Medical



Service food equipment



Telecoms

## Reach5

The web monitoring system allows real-time interaction with the remote plant and/or machine. Reach5 collects data from devices connected to Ping gateways and distributes value to internal and external stakeholders: service, R&D, Sales, customers.

### Main advantages:

- Real-time interaction with the remote devices, which allows to check the device status and to modify from remote its setup parameters
- Integrated with Ping and Ping XS as a complete solution for remote monitoring
- Dedicated web site with graphical personalization
- Device statistics and diagnostics
- Automatic notifications, alarms and reports
- User profile access level management
- Interactive and configurable dashboard
- Remote software update management
- Intuitive and easy user interface
- Historic data of the last 36 months
- Optional worldwide flat Vodafone SIM



UNI EN ISO 9001:2015  
UNI CEI EN ISO 13485:2016