newsteo
Data & Voice transmission

PRODUCT CATALOGUE

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HOW DOES IT WORK ?

1 – THE DATA LOGGERS

They are spread in the area which has to be monitored. They send to the RF-to-USB key by radiofrequency the measures they take. They can be wireless configured and updated.

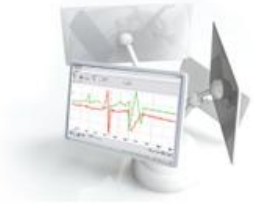
2 - THE RF-TO-USB KEY

It is the bridge between the PC and the loggers.

3 - RF-MONITOR

This software is installed on the PC and allows the monitoring of the loggers.

MONITORING

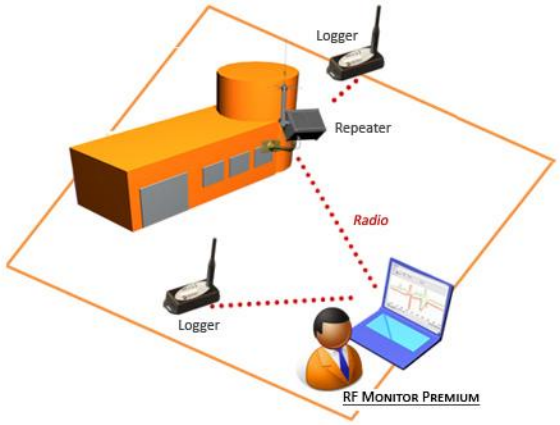


The logger sends in real time its measures to the PC. If a measure is not received by the PC, it stores it inside its internal memory and sends it to the PC on the next communication channel.

RECORDING

The logger records in its embedded memory the measures it takes. The user can download on the PC all the stored measures when he wants.

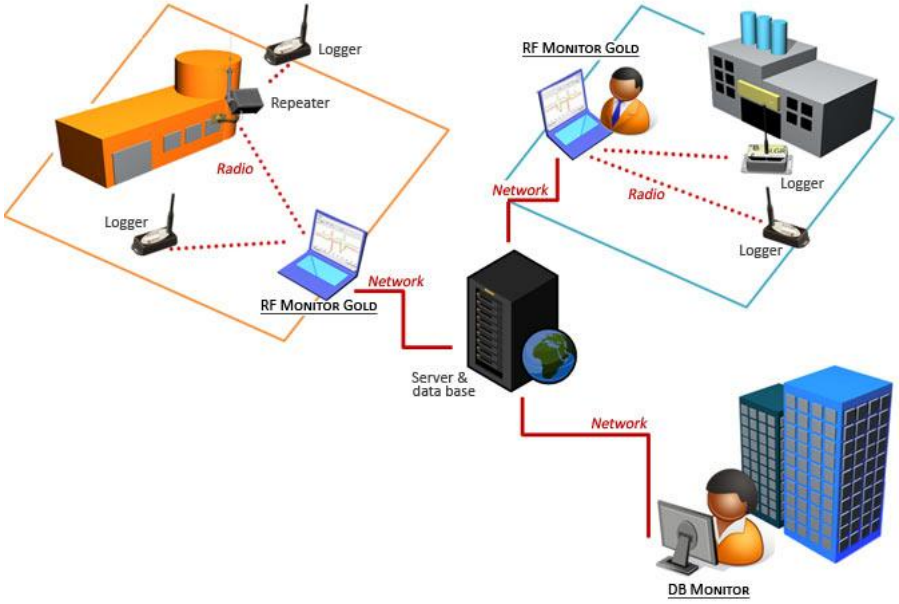
CREATE YOUR OWN SENSOR NETWORK…



USING RF MONITOR PREMIUM

- The loggers communicate with a PC; the measurements are displayed only on this PC.

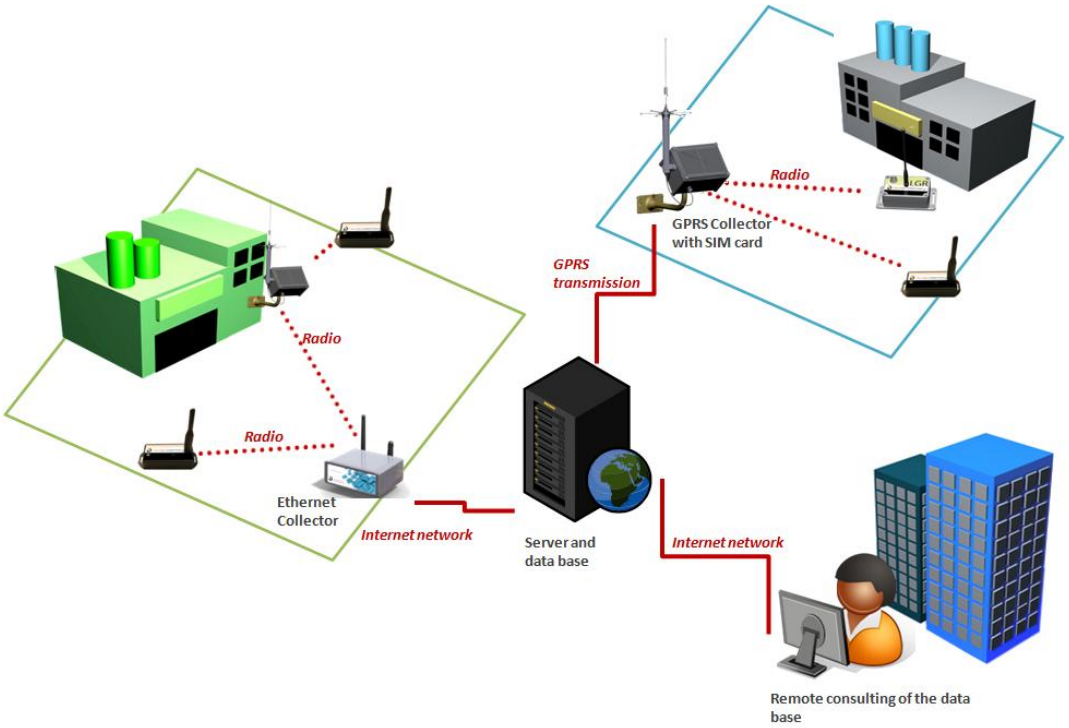
> For single-site installations.



USING RF MONITOR GOLD

- Several Loggers networks are created.
- Each system communicates to a PC that transmits the measurement to a central database.
- From anywhere in the world, it is possible to connect to the database to check the measurements.
- This consultation is possible with free software DB Monitor.

>For multi-site installations.



USING AN ETHERNET OR GPRS COLLECTOR

- The Logger equipped with a sensor takes the measure and transmits it by radio to the Collector,
- The collector transmits the measurements through Ethernet or GPRS to a central database,
- A real-time alert can be sent anywhere to the supervisor.

>The supervisor can access at any time to the measures, via Internet

LOG
LOGGERS

- Internal Antenna
- IP54 Casing
- ½ AA (LT) Battery

References	Temp. Sensor
PFPN-LOG11-001	-40°C ... +70°C± 0.6°
PFPN-LOG16-001	-40°C ... +70°C± 0.3°

- ¼ Wavelength
- IP54 Casing
- ½ AA (LT) Battery

References	Temp. Sensor
PFPN-LOG21-001	-40°C ... +70°C± 0.6°
PFPN-LOG26-001	-40°C ... +70°C ± 0.3°

- ½ Wavelength
- IP65 Casing
- AA (LT) Battery

References	Temp. Sensor
PFPN-LOG31-001	-40°C ... +85°C ± 0.6°
PFPN-LOG36-001	-40°C ... +85°C ± 0.3°

- ¼ Wavelength
- IP54 Casing
- ½ AA (LT) Battery

References	Temp. Sensor	Humidity Sensor*
PFPN-LOG20-001	-40°C ... +70°C± 0.5°	0 ... 100% ± 4,5%
PFPN-LOG22-001	-40°C ... +70°C± 0.4°	0 ... 100% ± 3%
PFPN-LOG25-001	-40°C ... +70°C± 0.3°	0 ... 100% ± 2%

** Non-condensing area*

Need a COFRAC certification ? Consult us

Dew Point calculation and display on all our temperature and humidity loggers.

1/4 Wavelength

IP54 Casing

½ AA (LT) Battery

References	Temp. Sensor
PFPN-LOG56-001	-40°C ... +70°C ± 0.3° for both sensor
PFPN-LOG66-001	-40°C ... +70°C ± 0.3° for both sensor

LGR LOGGERS

1/2 Wavelength

IP65 Aluminium

AA (LT) Battery

References	Interface
PFPN-LGR30-001	For PT100
PFPN-LGR32-001	For Newsteo Temp & Humidity probe
PFPN-LGR33-001	For PT1000
PFPN-LGR36-001	For Newsteo digital Temperature probe
PFPN-LGR37-001	For Thermocouple
PFPN-LGR46-001	For Newsteo Double external probe of Temperature.

1/2 Wavelength

IP65 Aluminium

AA (LT) Battery

References	Temp. Sensor	Humidity Sensor
PFPN-LGR52-001	-40°C ... +85°C ± 0.4°C	0 ... 100 % ± 3%, non condensing area
PFPN-LGR54-001	-40°C ... +85°C± 0.3°C	0 ... 100 % ± 2.8%, dew formation resistant
PFPN-LGR55-001	-40°C ... +85°C± 0.3°C	0 ... 100 % ± 2%, non condensing area

LGR
PROBES

	References	For	Sensor	Interface	Characteristics
	PFPN-STE52-001	LGR30	PT100	-40 to 60°C Class B	End protected by a heat-shrinkable sleeve
	PFPN-STE52-002	LGR30	PT100	-50 to 250°C Class B	PT100 for food contact, angle probe to insert
	PFPN-STE52-003	LGR30	PT100	-50 to 250°C Class B	Straight PT100 end of 150 mm
	PFPN-STE53-001	LGR33	PT1000	-40 to 60°C	End protected by a heat-shrinkable sleeve
	PFPN-STE53-002	LGR33	PT1000	-40 to 500°C	Probe of stainless steel of 20mm
	PFPN-STE53-003	LGR33	PT1000	-50 to 180°C	Probe of stainless steel of 100m
	PFPN-STE51-001	LGR36	Digital Temp.	-25 to 60°C± 0.3°C	End protected by a heat-shrinkable sleeve
	PFPN-STE51-002	LGR36	Digital Temp.	-25 to 100°C± 0.3°C	Integrated temperature sensor
	PFPN-STT51-001	LGR46	Digital Temp.	-25 to 100°C± 0.3°C	Dual temperature probe
	PFPN-STH51-001	LGR32	Digital Temp. & Hum.	-25 to +80°C ± 0.4°C 0..100%± 3.0%	Integrated temp. & humidity sensor*
	PFPN-STH55-001	LGR32	Digital Temp. & Hum.	-25 to +80°C ± 0.3°C 0..100% ± 2.0%	Integrated temp. & humidity sensor*
	PFPN-STH50-003	LGR32	Digital Temp. & Hum.	-40 to +125°C± 0.3°C 0..100%± 2.8%	Integrated temp. & humidity sensor in stainless steel**
	PFPN-STC01-001	LGR37	Thermocouple K	-40°C to 1100°C	Thermocouple type K with probe of 150 m
	PFPN-STC01-002	LGR37	Thermocouple K	-100 to 1100°C	Thermocouple K cold temperature probe
	PFPN-STF51-001	LGR37	Thermal Flux	Thermal Flux	Probe Thermal Flux 50x50m 0.60W/m²

** non condensed area.*

*** dew formation resistant.*

LGR
CABLE AND CONNECTOR

References	Type	Compliance	IP	Characteristics
PFPN-CON05-001	Connector	LGR37	IP65	To connect any thermocouple (K, E, J, N, T)
PFPN-SES55-001	Cable	Any LGR except thermocouple	IP65	5 meters cable – Provided with fast contactor

**If you want to use your own sensor, you have to order a cable and a connector to plug it on the LG.*

LGS
LOGGERS

1/2 Wavelength

IP65 Aluminium

AA (LT) Battery

References	Interface	Range of measure
PFPN-LGS31-001	Potentiometer	0 to 100% Impedance: 1 Ohm ... 10 MOhm
PFPN-LGS32-001	Potentiometer	0 to 100% Impedance:100 ...5 KOhm
PFPN-LGS34-001	4-20mA	0 ... 20mA Impedance: 62 Ohm
PFPN-LGS74-001*	4-20mA	0 ... 20mA Impedance: 62 Ohm
PFPN-LGS35-001	0-10V	0 ... 10 Volt
PFPN-LGS36-001	Relay	10 Hz
PFPN-LGS37-001	-50/+50mV	-50 ... +50mV
PFPN-LGS39-001	Impulse	10 Hz
PFPN-LGSA9-001	Impulse ATEX zone 2gascertified	10 Hz
PFPN-LGS3A-001	Strain gauges - 1/4 Bridge (wheatstone bridge)	+/- 50 mV for a 2.7V excitation
PFPN-LGS3D-001	Strain gauges - Full Bridge (wheatstone bridge)	+/- 50 mV for a 2.7V excitation

**Supplied on main power.*

LGS
CABLE AND CONNECTOR

References	Type	Compliance	IP	Characteristics
PFPN-SES55-001	Cable	LGS34 LGS74 LGS35 LGS36 LGS37 LGS39 LGSA9	IP65	5 meters cable to connect a sensor, provided with fast contactors.
PFPN-SES58-001	Cable	LGS31 LGS3A LGS3D	IP65	5 meters cable to connect a sensor, provided with fast contactors.
PFPN-CON05-001	Connector	LGS34 LGS74 LGS35 LGS36 LGS37 LGS39 LGSA9	IP65	To directly connect the customer sensor to the LGS.

**If you want to use your own sensor, you have to order a cable or a connector to plug it on the LGS.*

LGS31
PROBES

	References	Type	Compliance	IP	Characteristics
	PFPN-FISSU-001	Crackmeter	LGS31-001 +STY58-002	IP40	Measurement bracket: 10... 100mm
	PFPN-STY58-002	Associated Cable	LGS31-001	IP40	5 meters with temperature gauge integrated and connector for FISSU-001
	PFPN-FISSU-002	Crackmeter	LGS31-001 +STY58-003	IP67	Measurement bracket: 25... 300mm
	PFPN-STY58-003	Associated Cable	LGS31-001	IP67	5 meters with temperature gauge integrated and connector for FISSU-002
	PFPN-FISSU-003	Crackmeter	LGS31-001 + STY58-004	IP67	Gefran PCM050 crackmeter, female connector
	PFPN-STY58-004	Associated Cable	LGS31-001	IP67	5 meters with temperature gauge integrated and connector for FISSU-003
	PFPN-SES58-001	Crackmeter	LGS31-001	IP65	5 meters cable, to connect any sensor, provided with fast contactors
	PFPN-STY58-001	Associated Cable	LGS31-001	IP65	5 meters cable, to connect any sensor, provided with fast contactors and temperature sensor

LGW
LOGGERS

1/2 Wavelength

IP65 Aluminium

AA (LT) Battery

References	Range of measure	Power supply for the sensor
PFPN-LGW31-001	0 to 3 Volt	3 Volt / 150 mA
PFPN-LGW32-001	0 to 1 Volt	10 Volt
PFPN-LGW33-001	0 to 2 Volt	12 Volt / 100 mA
PFPN-LGW34-001	0 to 10 Volt	12 Volt
PFPN-LGW38-001	0 to 5 Volt	10 Volt / 100 mA

LGW
PROBES AND CABLES

References	Type	Compliance	IP	Characteristics
PFPN-PYRAN-001	Probe	LGW31-001	IP67	Probe of 5 meters with pyranometer integrated
PFPN-AIRSP-001	Probe	LGW38-001	IP20	Probe of 5 meters for speed of air measure
PFPN-SES55-001	Cable	All LGW	IP65	5m cable, to connect any sensor, provided with fast contactors

TRK
TRACKERS

Internal Antenna

IP54

References	Sensors	Operating Temp	Battery
PFPN-TRK31-001	Shock: -6g .. +6g Temp.: -10°C ... +60°C ± 0.4°C Hum.: 0 ... 100% ±3.0% Light : 0 ... 220 Lux ± 30 Lux	-10°C ... +60°C	3 AA Alkaline
PFPN-TRK33-001	Shock: -6g .. +6g Temp.: -40°C ... +85°C ± 0.4°C Hum.: 0 ... 100% ±3.0% Light : 0 ... 220 Lux ± 30 Lux	-40°C ... +85°C	A LT

1/4 Wavelength

IP54 Casing

3 AA Alkaline

References	Sensors	Operating Temp
PFPN-TRK41-001	Shock: -6g .. +6g Temp.: -10°C ... +60°C ± 0.4°C Hum.: 0 ... 100% ±3.0% Light : 0 ... 220 Lux ± 30 Lux	-10°C ... +60°C

Internal Antenna

IP54 Casing

C LT Battery

References	Sensors	Operating Temp
PFPN-TRE52-001	Shock: -16g ... +16g Temp.: -40°C ... +85°C±0.3°C	-40°C ... +85°C

BLD
BUILDERS

IP54
Casing

High range
Antenna with
a 5m cable

C LT
Battery

References	Sensors
PFPN-BLR36-001	Temp.: -20°C ... +80°C± 0.3°C
PFPN-BLR37-001	Temp.: -20°C ... +80°C± 0.3°C Deformation: -1850 ppm to +1850 ppm for a bridge excitation of 2.7 Volt

RPT
REPEATERS

References	Specifications	Case	Antenna	Power supply
PFPN-RPT41-001	Outdoor radio relay	IP67	Full Wavelength	Solar panels

References	Specifications	Case	Antenna	Power supply
PFPN-RPT20-001	Indoor radio relay	IP50	1/2 Wavelength	Conventional AC Power

References	Specifications	Case	Antenna	Power supply
PFPN-RPT30-001	Outdoor radio relay	IP65	1/2 Wavelength	Conventional AC Power
PFPN-RPT30-002	Outdoor radio relay	IP65	Without antenna (SMA connector)	Conventional AC Power

COL
COLLECTORS

References	Specifications	Case	Antenna	Power supply
PFPN-COL21-001	GPRS Collector	IP50	1/2 Wavelength	Conventional AC Power
PFPN-COL22-001	Ethernet Collector	IP50	1/2 Wavelength	Conventional AC Power

References	Specifications	Case	Antenna	Power supply
PFPN-COL41-001	Outdoor GPRS Collector	IP67	Full Wavelength	Solar panels

KEY
FOR PLC

References	Link	Communication protocol	Antenna	IP
PFPN-KES63-001	Rf-to-RS232	MODBUS	Without Antenna	IP30
PFPN-KES65-002	Rf-to-RS485	MODBUS	Without Antenna	IP30

References	Link	Communication protocol	Antenna	IP
PFPN-KES83-001	Rf-to-RS232	MODBUS	Without Antenna	IP65
PFPN-KES85-001	Rf-to-RS485	MODBUS	Without Antenna	IP65

References	Link	Communication protocol	Antenna	IP
PFPN-KEY43-001	Rf-to-RS232	Newsteo	½ Wavelength	IP30
PFPN-KEY43-002	Rf-to-RS232	Newsteo	Without Antenna	IP30

SOFTWARE

References	Characteristics
PFPN-RFM10-001	Rf Monitor with Premium Licence Delivered with KEY11-001 Premium: The measurements are stored on the PC, on a local database
PFPN-RFM20-001	Rf Monitor with Gold Licence Delivered with KEY12-001 Gold: The measurements are stored on a shared and remote database
PFPN-RFM30-001	RFM Gold with CFR21 Delivered with KEY14-001
PFPN-RFM40-001	RFM Premium with CFR21 Delivered with KEY13-001

ANTENNAS

FOR NEWSTEO PRODUCTS

References	Type	Compliancy
PFPN-ANT40-001	Whip ¼ wavelength	KEY – LOG – TRK41
PFPN-ANT41-001	¼ wavelength With ground plane Cable of 2 meters	KEY – LOG – LGR – LGS – LGW – RPT20
PFPN-ANT20-001	Whip ½ Wavelength, rigid	LGR – LGS – LGW – RPT20
PFPN-ANT20-002	Whip ½ Wavelength, flexible	LOG – KEY
PFPN-ANT11-001	Full wavelength grounded Cable of 5 meters	KEY – LOG – LGR – LGS - RPT
PFPN-ANT97-001	Yagi Directional range.	RPT (consult us)
PFPN-ANT42-001	Whip ½ Wavelength magnetic, Mobile – big foot	
PFPN-ANT12-001	FullWavelength magnetic, Mobile – big foot	
PFPN-ANT43-001	Whip ¼ Wavelength magnetic, Small foot	
PFPN-ANT43-001	Whip ¼ Wavelength – 0 to 90° Rotation	
PFPN-ANT83-001	Whip 1/8 Wavelength magnetic – Small foot	

EVALUATION KITS
FOR NEWSTEO PRODUCTS

	Devices	Software	Key	Magnet	USB Cable
PFKI-LOG26-001	One LOG26-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LOG22-001	One LOG22-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGR33-001	One LGR33-001 One Probe STE53-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGR37-001	One LGR37-001 One Probe STC01-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-TRK31-001	One TRK31-001	One RFM10-001	One Key11-001		One CBUSB-001
PFKI-BLR37-001	One BLR37-001	One RFM10-001	One Key11-001		One CBUSB-001
PFKI-LGS31-002	One LGS31-001 One cable STY58-002 One crackmeterFISSU-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGS34-001	One LGS34-001 One cable SES55-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGS35-001	One LGS35-001 One cable SES55-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGS39-001	One LGS39-001 One cable SES55-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-KES63-001	One PFPN-KES63-001 One antenna ANT40	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-KES65-001	One PFPN-KES65-001 One antenna ANT40	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001

ACCESSORIES

References	Description	Characteristics
PFPN-CBL05-001	Cable	5m extension coax cable SMA. Male-Female.
PFPN-CBL10-001	Cable	10m extension coax cable SMA. Male-Female.
PFPN-CBL20-001	Cable	20m extension coax cable SMA. Male-Female.
PFPN-CBL05-002	Cable	5m extension coax cable SMA. Male to N Female.
PFPN-CBL10-002	Cable	10m extension coax cable SMA. Male to N Female.

References	Description	Characteristics
PFPN-CPPMM-001	Cable	Thru-wall adapter (dual male-male SMA connector)
PFPN-CPPMF-001	Cable	Thru-wall male SMA for screwed antenna (+ fem. SMA 20cm extender)

References	Description	Characteristics
PFPN-CDRFM-001	CD-ROM	Additional RF Monitor CD-ROM installer
PFPN-CDRFM-003	CD-ROM	Additional RF Monitor Pharma software

References	Description	Characteristics
PFPN-LOTPI-001	Battery	Pack of 10 lithium thyonil ½ AA batteries
PFPN-LOTPI-002	Battery	Pack of 10 lithium thyonilAA batteries
PFPN-LOTPI-003	Battery	Pack of 10 lithium thyonil A batteries
PFPN-LOTPI-006	Battery	Pack of 10 lithium CR2450 batteries
PFPN-LOTPI-007	Battery	Pack of 30Alkaline LR6 batteries
PFPN-LOTPI-008	Battery	Pack of 10 lithium thyonil ½ AA batteries with mini-connector and wires

References	Description	Characteristics
PFPN-BRG21-001	USB Bridge	Hardware bridge between USB and RS232 ports
PFPN- BRG32-001	USB Bridge	Hardware bridge between USB and Ethernet

References	Description	Characteristics
PFPN-CBUSB-001	USB cable	USB-A Male-Female extender cable 0.8m
PFPN- CBUSB-002	USB cable	USB-A Male to Male Micro USB cable 2m
PFPN- CBUSB-003	USB cable	USB-A Male to Male Micro USB cable 1m

References	Description	Characteristics
PFPN-RLA21-001	USB output relay	Active security - 1 relay with 3 poles
PFPN-RLB21-001	USB output relay	Toggle (bistable) - 1 relay with 3 poles

References	Description	Characteristics
PFPN- RLW21-001	Radio output relay	2x3 relay contacts

References	Description	Characteristics
PFPN-CLEAN-001	Cleaning tools	Special cleaning tools to prepare surface

References	Description	Characteristics
PFPN-AIMANT-001	Magnet	Newsteo magnet to wake-up loggers