



# Harmony Hub ecosystem

Cost effective solution to collect more data from your machines and plant, for energy efficiency gains, optimized operations, and better preventive maintenance.

Compliant with EcoStruxure and AVEVA environments.



### Trigger an action

- Wireless battery-less pushbutton switch
- Wireless battery-less rope pull switch
- Wireless battery-less limit switch

### Scan your environment

- Auxiliary contact for circuit breaker
- Self-powered current monitoring sensor
- PowerTag Energy sensor
- PowerTag Energy wireless battery-less measurement sensor
- Temperature and humidity sensor
- Temperature and CO<sub>2</sub> sensor
- Wireless transmission system for sensors

# Trigger an action

## Wireless battery-less pushbutton switch XB4R/XB5R

A non-intrusive wireless system for existing installations and equipment, these self-powered transmitters are compatible with Harmony's leading range of 22 mm devices from Schneider Electric.

This pushbutton can be found in different boxes with one or two simple action pushbuttons and transmitters. The round head pushbutton operates with spring return actuation. It offers mechanical durability of about 1 million cycles. It is ideal for automotive and logistic centers conveying systems, bottle filling, palletizer wrapping machines, lighting, or door opening. Experience complete freedom to place or move the wireless pushbutton anywhere: no batteries means no maintenance, recharging, or recycling.



## Wireless battery-less transmitter with rope pull switch, Harmony XB5R/ZBRP1

This wireless rope pull switch is part of the Harmony XB5R range. It features a rope pull switch with a wireless and battery-less transmitter. It operates with the protocol Zigbee Green Power 2.4 GHz. It is impact resistant, dust resistant, water resistant and vibration resistant thanks to its IP66. It is particularly adapted for automatic doors, sending a radio message to the receiver in the control panel to open and close the door.



## Wireless battery-less limit switch from Telemecanique Sensors XCMW

The wireless limit switch can be used to determine the position of an item or part of a machine remotely, without a wired connection. This battery-less transmitter is equipped with a "dynamo" generator that converts the mechanical energy produced by the actuator movement to electrical energy. A radio-encoded message (2.4 GHz ZigBee protocol) is then sent, by a single pulse, to one or more receivers located several dozen meters away.

Thanks to this technology, industrial applications have diversified and now meet the requirements of machine manufacturers in terms of flexibility and modularity. XCMW wireless limit switches are particularly suitable for automatic doors, expandable conveyors, wheel chocks for trucks, rotary machines or turntables.



# Scan your environment

## Wireless indication auxiliary contact for circuit breaker LV429454

This wireless auxiliary contact provides remote indications of the circuit breaker status. It is used on ComPacT NSX 100 to 630 and ComPacT NS 630 to 3200 new generations. The auxiliary contact provides OF information (ON/OFF), indicating the position of the circuit breaker power contacts. It is a plug-and-play technology for clear connection status. The device is placed in the same position as the wired version. An integrated LED light gives an indication in case of tripping.



## Self-powered current monitoring wireless clamp sensor – 3 references from 0.5A to 500A ZBRTC1/2/3

This wireless sensor provides an estimation of the current on a machine. It is a self-powered, current monitoring wireless clamp sensor for 0.5 A up to 500 A, depending on the part number. It can be clamped on the cable directly to gauge current estimation as no battery and wiring is required. The sensor can be directly paired with ZBRN1 Harmony Hub Gateway to collect data. The device is ideal for preventive maintenance and efficiency gains as it limits the machine downtime by easily detecting any malfunction on the machine, pump, or motor.



## PowerTag Energy sensor A9MEM1560

PowerTag Energy is a wireless communication energy sensor. It is dedicated to Acti9 and Multi9 PhaseNeutral devices with 9 mm pitch between phase and neutral, rating less than or equal 63 A. Integrated with the Harmony Hub Gateway it can provide circuit monitoring and diagnosis down to load level. It is designed specifically for energy management, load monitoring, and power availability applications.

It incorporates accurate, real-time measurements of active energy, active power, current, voltage and power factor. In the case of power outage, it sends a voltage loss alarm and the current-per-phase value before being de-energized.



# Scan your environment

## PowerTag Energy sensor, Monoconnect 250A 3P LV434020

This PowerTag Energy M250 3P is a wireless communication energy sensor. With its Monoconnect design, it is dedicated to the Compact NSX 100/160/250, Compact NS 100/160/250, and TeSys GV5/GV7. Associated with the Harmony Hub Gateway, it can provide circuit monitoring and diagnosis down to load level. It is designed specifically for energy management, load monitoring, and power availability applications. It incorporates accurate real-time measurements of active, and reactive energy, active, reactive and apparent power, current, voltage, and power factor. In the case of power outage, it sends a voltage loss alarm and the current-per-phase value before being de-energized.



## Wireless thermal sensor for continuous condition monitoring ZBRTT1

This wireless sensor enables the continuous environmental condition monitoring of an enclosure (de-energized surface) such as a switchgear cabinet. The measurement features both the temperature of the surface in contact and the relative humidity.

Continuous environmental monitoring allows users of MV and LV switchgear to optimize predictive maintenance by avoiding conditions of deterioration due to moisture and pollution. It is battery-powered and allows simple fixing on magnetic metal surfaces thanks to its high-strength magnets.



## Wireless CO<sub>2</sub> sensor with room temperature and humidity SED-CO2-G-5045

These wireless sensors are wall-mounted devices with ambient comfort monitoring and HVAC control applications and measure CO<sub>2</sub>, temperature, and relative humidity. Measured data is communicated wirelessly using ZigBee Green Power protocol.



## Radio transmitter for sensors and switches XZBWE112A24

This "less-wire" remote connection system is used for radio transmission to a 24 V sensor or limit switch and is compatible with a PNP or NPN sensor. It uses ZigBee Green Power 2.405 GHz communication protocol.



Life Is On



To learn more about our Harmony Hub ecosystem, visit

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