Zebra WhereCall V

The WhereCall V Material Replenishment Tag is a wireless pendant and simple telemetry device. Fundamental to the wireless Material Flow Replenishment System, it is designed to be easily mounted line side with no wires or conduit. It can make parts requests without requiring any hardwired connectivity whatsoever. Additionally, it provides operator feedback by incorporating an eight-character LCD display that can count the duration of time since the last button press. It can be the basis for a wireless call system solution that eliminates the need for wired, line-side pendants, or can replace paper-based Kanban Systems.

Highly flexible, it can also be programmed to toggle between "on" and "off" states, as well as display custom messages for each state. The use of a wireless pendant can provide the ability to easily reconfigure the production line and add new workstations without the cost of reinstalling wires or conduit.

In a typical line-side application, a specific WhereCall V is associated with a unique part number and workstation. An operator makes a replenishment request by simply pressing the button on the WhereCall V. The button press causes the WhereCall V to transmit its unique ID in addition to the request for parts. A network of WhereLAN Location Sensors (LOS) receives these transmissions and forwards them to the replenishment system. The button press also starts the timer that counts elapsed time and displays it on the LCD display. This allows the operator to monitor the elapsed time from button press until parts delivery. The WhereCall V can also be programmed to transmit two different states; the equivalent of "on" and "off". An example implementation of this function is to make

a request for assistance and then cancel the request after the assistance is rendered.

The WhereCall V PLC is a product variant that can be integrated into an automated, Programmable Logic Control (PLC) system. A sealed connector replaces the activation button. This connector is attached to a remote switch that then automatically triggers the same actions as the activation button in the standard WhereCall V. This allows the PLC version to be directly connected to intelligent shop floor equipment.

The WhereCall V utilizes field-replaceable batteries that provide a typical battery life of five years in most applications. This far exceeds the battery life of most wireless "call pendants". Additionally, in ISO/IEC 24730-2 mode, the range is more than double the range of Wi-Fi pendants and therefore requires fewer than one-fourth the number of receivers of a Wi-Fi system.

The Benefits of WhereCall V
- Provides Wireless Messaging
- Saves Cost of Reconfiguring Wired Systems
- Long Range and Battery Life
- Supports ISO/IEC 24730-2 or Cisco CCX

WhereCall V Tag Variants
- WhereCall V is the standard "Material Replenishment Tag" design variant
- WhereCall V PLC is the connectorized tag variant of the "Material Replenishment Tag"
- WhereCall V for Korea is the "Material Replenishment Tag" certified for Korea

PRODUCT SPECIFICATIONS

PHYSICAL

Size	120mm x 75mm x 30mm (4.7in x 3.0in x 1.6in)
Weight	170g (6.0oz)

ENVIRONMENTAL

Operating Temperature	0ºC to +55ºC (+32ºF to +131ºF)
Storage Temperature	-30ºC to +70ºC (-22ºF to +158ºF)
Environmental Sealing	IP54 (Windblown Dust and Rain), NEMA 12
Durability	1.5m (5ft) Drop to Concrete

POWER

Battery	2x AA Lithium Thionyl Chloride Cell (Replaceable)

PERFORMANCE

ISO 24730-2 Mode	• Frequency Range: 2.4GHz to 2.483GHz • Typical Locate Range, Indoors: 100m (325ft) • Typical Locate Range, Outdoors: 1,000m (3,250ft) • Typical Read Range, Indoors: 200m (650ft) • Typical Read Range, Outdoors: 1,750m (5,700ft) • User Configurable Blink Rate: 1 second to 5 days • Typical Battery Life: 5 years
CCX Mode	• Frequency Range: 2.4GHz to 2.5GHz • Typical Locate Range, Indoors: 20m (65ft) • Typical Read Range, Indoors: 50m (160ft) • User Configurable Blink Rate: 1 second to 5 days • Typical Battery Life: 3 years

REGULATORY APPROVALS

Asia Pacific	• China CMIIT • Korea KCC
Europe	• CE, R&TTE Directive 99/5/EC: EN 300 328, EN 301 489-1/-17, EN 60950-1
North America	• FCC Part 15 Class B, Part 15.247 • Industry Canada ICES-003, RSS-210, RSS-GEN • Mexico NOM
South America	• Argentina CNC • Brasil ANATEL • Columbia CRC
Worldwide	• ISO/IEC 24730-2 Compliant • Cisco CCX Compliant

PART NUMBERS

Part Number	Description
TFF-2235-00AA	TFF-2235-00AA WhereCall V, Material Replenishment Tag
TFF-2236-00AA	WhereCall V PLC
TFF-2235-00AA-K	WhereCall V for Korea

PRODUCT ACCESSORIES

• WhereCall V Mounts (Hanger or Plate)
• PLC Cable (Turck RS4.4T-2)

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