

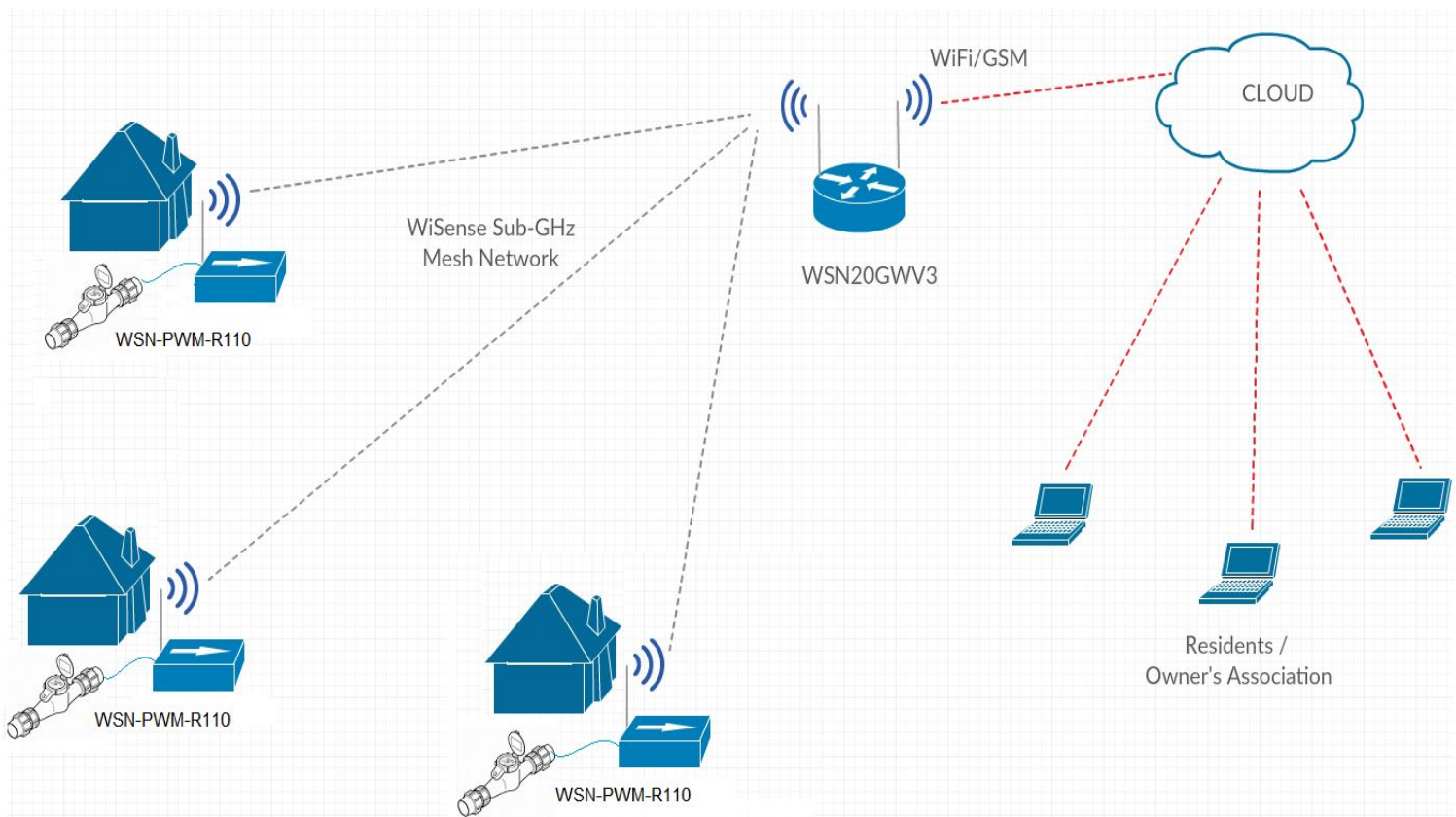
WiSense Wireless Water Metering Module WSN-PWM-R110



Water Meter With Pulse Output

Model: WPM-103

15mm, Multi Jet Water Meter (up to 50° C) Inferential type, magnetically coupled, having dry dial and hermetically sealed totaliser. Maximum pressure is 16 bar. Max reading is 99999.9999 m³.



SYSTEM ARCHITECTURE

Specifications

Component	Specs	Dimensions	Add-on Specs
<p>WSN1120L</p>	<ul style="list-style-type: none"> ➤ Low-power Sub-Ghz WiSense wireless mesh node. ➤ Includes CC1120 high performance sub-ghz radio & MSP430G2955 microcontroller. ➤ Radio board has a PCB antenna as well as a U.FL connector. ➤ Node is programmed to operate in the 865-867 MHz license free band in India. ➤ Raw data rate is 10kbps. Default transmit power is +13 dBm. Both parameters can be changed. 	<ul style="list-style-type: none"> ➤ 42mm x 42mm x 10mm ➤ 4 mounting holes 	<ul style="list-style-type: none"> ➤ U.FL to bulkhead SMA cable assembly supports external antenna (node and associated electronics inside a weatherproof enclosure with just the antenna and meter interface cable outside). ➤ Default antenna (external half wave dipole omni-directional) Other antenna options possible on request ➤ Support for full mesh or star only network configurations.

	<p>Note: WSN1120L node counts pulses generated by the attached flow sensor. The pulse count is stored in on-board non-volatile memory. WSN1120L can be configured to send the pulse count periodically (interval >= 1 sec) to external entities via network coordinator/gateway. This interval can be changed any time.</p>		
WSNFSIB10	<ul style="list-style-type: none"> ➤ water flow sensor interface PCB ➤ 2-wire interface to water flow meter ➤ 3 wire interface for water flow meter 	<ul style="list-style-type: none"> ➤ 42mm x 42mm with ➤ 4 mounting holes 	Supports both 2 wire and 3 wire pulse output meters.-
Component	Specs	Dimensions	Add-on Specs
WSLIC100 (Optional)	<ul style="list-style-type: none"> ➤ Power supply board ➤ Onboard lithium-ion charger IC facilitating auto switchover when external supply is down. Includes a thermistor (NXFT15XH103) which is used to monitor the temperature of Li-Ion battery 	<ul style="list-style-type: none"> ➤ 42mm x 42mm x 10mm ➤ 4 mounting holes 	<ul style="list-style-type: none"> ➤ Power input options: <ul style="list-style-type: none"> ● Micro USB type B receptacle (supplies 5 volts to the STNS01) ● Power Jack (Up to 16 Volts). A separate LDO on the board steps down high input voltage to 5 Volts.

			<ul style="list-style-type: none"> ➤ Power output: 3.1 V/100 mA ➤ Comes with modular AC-DC converter <ul style="list-style-type: none"> ● 85 VAC - 305 VAC, ● 3 Watts ● 5V, 600mA
<p>Note:The node can run on battery alone (AA, AAA or Li-Ion) or on Li-Ion battery with battery backup. This depends on the frequency at which the node is configured to send water consumption data. If the frequency is low (say once a day or less) the node can run on battery alone. Otherwise it should be powered by the WSLIC100 power supply unit.</p>			