JMS Southeast Transmitters

Panel Mount and Field Mount

NEW with

HART capable transmitters
now only $152.00

JMS-SE
WIRELESS
technology

JMS SOUTHEAST INCORPORATED

RANKED #s 1,2 and 3 in Thermocouples, RTDs and Transmitters by Control Magazine 2011 Readers Choice Award!

WIRELESS CONTROL

Base Radio Units

At the heart of any JMS-SE wireless instrument network is the wireless base radio. This device automatically communicates with all deployed instrumentation field units attached to it in a local area star network and makes the field data available to an existing control system through a local serial Modbus interface. A third-party Modbus TCP/IP converter can also be employed to add Ethernet connectivity. One base radio can communicate with up to a maximum 100 field units. Multiple base radios can be used to accommodate additional field units. With the capability to scale up to as many as 16 wireless instrumentation LANs, JMS-SE easily accommodates even the most aggressive expansion plans. The product is powered by readily-available 9-38VDC and is self-contained for use in extreme environments. The base radio may be configured locally through its LCD/keypad or remotely with JMS-SE Manager, which also provides a user-friendly environment for wireless network diagnostics and management.

- Up to 5000ft (~1500m) typical range to field unit
- Integrated transmitter, receiver and antenna
- Unlicensed 902MHz (915MHz Australia) to 928MHz band
- 9-38VDC Input Power, 24VDC @ 200mA typical
- LCD/keypad for local configuration and monitoring
- Explosion, weather & corrosion-proof baked enamel housing
- CSA Class I, Div 1 and Div 2 rating

—3-Year Warranty (parts and labor)—

Wireless Gauge Pressure Field Unit

Features:

- Highly accurate gauge pressure sensor
- 30 to 10,000 PSIG
- Adjustable sample and transmit rates

The JMS-SE wireless gauge pressure field unit provides pressure data in a variety of ranges from 30 to 10000 PSIG. With its integrated and highly sensitive sensor design, the product may be configured to sample and transmit updates between once per second and once per minute. Transmit rate changes can also be triggered based on events that are defined in terms of measurement limits or rates of movement. This function allows for maximization of battery life while ensuring that all important process events are monitored.

Wireless Temperature Field Unit

JMS-SE field units eliminate costly hard wired installations by providing an easy-to-install and secure wireless link between field-based process instrumentation and control/monitoring infrastructure.

They are intended for use in extreme environments where typical wired installation is not feasible or economical. Field units are configured locally through a LCD/keypad or remotely with JMS-SE Manager, which also provides a user-friendly environment for wireless network diagnostics and management. A wide range of process types are supported with a maximum of 100 field units possible per base radio network.

Features:

- RTD temperature sensor
- Thermocouple sensor
- Common and special RTD curves embedded in Microprocessor
- 22-point offset function for non-standard curve programming and precision trimming

The JMS-SE wireless temperature field unit provides temperature data using standard RTDs or thermocouples. Probes are available either spring-loaded for thermowells or direct insertion with NPT or sanitary connection.

JMS-SE WIRELESS

Local indication standard on all units

All JMS-SE field units automatically report field data to a centralized JMS-SE base radio over distances of up to 5000ft (~1500m). Each field unit is self contained, featuring an integrated 900MHz or 869MHz (license-free band), frequency hopping, spread-spectrum transceiver and antenna, and long-lasting battery for up to 10 years of maintenance-free operation.

JMS-SE field units are housed within a compact and weather-proof NEMA 4 enclosure with options for a remote sensor and remote antenna on select models. Field units are available in a wide range of certifications and are protected by an industry-leading 3-Year warranty (parts and labor)

FIELD/PANEL MOUNT

Non Isolated Head or DIN Rail Mount Style

Fully programmable head or rail mount temperature transmitter dedicated to RTD and thermocouple sensors. In-the-field configuration of input type and working range can be achieved by means of an USB configurator interface to PC.

- Programmable input: Pt100 RTD, 0-50 mV and thermocouple type J,K,T,E,N,R, and S
- Two-wire loop powered 4-20 mA output
- Power supply: 12 to 35 Vdc
- Programmable working range
- 2 or 3 wire RTD with linearization
- Linearized output and cold junction compensation for thermocouples
- Windows® configurator software
- Manual frontal zero (offset) adjustment
- Accuracy: ±0.2% full scale for Pt100 and 0.3% max. of FS for thermocouples
- Temperature effect: 0.003% SPAN/°C
- Output resolution: 4 µA
- Working temperature: -40 to +85°C
- Programmable burnout upscale or downscale sensor failure protection
- Dimensions: (D x H) 44 x 25 mm
- Not recommended for critical applications

Isolated Head or DIN Rail Mount Style

Fully programmable DIN rail mounting temperature transmitters for RTD and thermocouple sensors. Both units can be ordered for 0 to 10 Vdc output in a 3-wire configuration. The flexibility of the in-the-field configuration translates into a one-model-fits-all signal conditioning and isolator module.

- Programmable input: Pt100 RTDs & thermocouple type: J,K,T,E,N,R,S, & B
- 2-wire loop powered 4-20 mA output
- Power supply: 10 to 35 Vdc
- Isolation: 1000Vac
- Linearized output and cold junction compensation for thermocouples
- 2, 3 or 4 wire Pt100 with linearization
- Programmable range and offset correction
- Accuracy: 0.2% full scale for Pt100 and 0.3% max. of FS for thermocouples
- Windows® configurator
- Temperature effect: 0.003% SPAN/°C
- Working temperature: -40 to +85°C
- Programmable burnout upscale or downscale sensor failure protection
- Dimensions: 72 x 77 x 19 mm

Isolated + HART Head or DIN Rail Mount Style

High performance temperature transmitters which convert RTDs, thermocouples and voltage signals into an isolated 4 to 20 mA current signal along with a superimposed HART protocol digital communication.

- Programmable Input: Thermocouple (B,E,J,K,R,S,T,N) - Pt100, Pt500, Pt1000 – Cu50, Cu100 – Ni100, Ni500, Ni1000 (5000 ppm/K) – 0 to 400 Ω, 0 to 2000 Ω, 0 to 10 KΩ - 10 to 75 mV, -100 to 100mV, -100 to 500 mV, -100 to 2000 mV
- User programmable working range
- 2-wire loop power 4-20 mA output
- Cold junction compensation for thermocouples
- Configuration on a PC with HART interface
- Power: 10 to 35 Vdc
- Isolation 1000 VAC
- Accuracy: Pt100 and 0 to 50 mV ±0.2% full scale. Thermocouples ±0.3% max. of full scale
- Working temperature: -40 to +85 °C (-40 to 185 °F)
- Maximum load: (Vcc – 10.5V) / 0.022A

Local Indicating Transmitters/Indicators

Versatile selection of readouts available for operator's visual inspection of process with simultaneous signal transmission.. From the inexpensive analog "Bemometer" with a built in Thermocouple or RTD to the highly visible and bright LED display in an exp housing. All units can be configured with a 4 – 20 mA output with internal programming internal or external transmitter with or without HART communications. May include wired transmitters from this brochure, plus indicators below.

- The large LEDL (1.2" display), LCD2 (.58" display 2 rows) Program and operate without opening the EXP housing using the built-in through-glass button programming or the serial communication port with free Modbus® protocol. Available with multitudinous inputs and outputs
- LCDL Battery power, 2 year life, 1" display
- Bemometer RTD/Thermocouple/Gauge combination, self powered
- LCDL 2 year battery life, ½" display

Bemometer
Self Powered

LCD
LCD

LCDX
LCD Large

LEDL
LED Large

LCD2
LCD 2 row

LCDL
2 Year Battery

JMS PRICE SHEET

PART NUMBER	TEMPERATURE TRANSMITTERS - WIRED	PRICE
8806000406	Programmable 2-Wire Head Mount Temp. Transmitter 4-20mA out	$51
8806020406	Programmable 2-Wire DIN Rail Temperature Transmitter 4-20mA out	$56
8806030306	Programmable 2-Wire Isolated DIN Rail Temp.Transm., 4-20mA out	$86
8807000000	USB Program, 2-Wire Isolated Head Mount Temp.Transmitter 4-20mA out	$86
8808000100	HART Program, 2-Wire Isolated Head Mount Temp.Transmit. 4-20mA out	$152
8808010100	HART Program, 2-Wire Isolated DIN Rail Mount Temp.Transmitter 4-20mA out	$168
8813020100	1 Loop-powered DIN Rail Isolator, 4-20 mA in / 4-20 mA out (1-channel)	$72
8813020200	2 Loop-powered DIN Rail Isolator, 4-20 mA in / 4-20 mA out (2-channels)	$128
8816021039	USB (software configurator + USB interface)	$52
8845000110	RS232 Programming RS232 interface cable and software for above units	$53
8816031059	Software configurator HART + interface USB	$250
8807000099	Software configurator + USB cable	$12

PART NUMBER	WIRELESS TRANSMITTERS	PRICE
88WPMR	Multi-Input Field Unit, Pyramid, Dual 4-20 mA Input	$1,290
88WFMR	Multi-Input Field Unit, Fibox, Dual 4-20 mA Input	$1,260
88WXMR	Multi Input Field Unit, XP Housing, Dual 4-20 mA Input	$1,530
88WPSR	Switch Input Field Unit, Pyramid, Dual Contact Closure	$1,250
88WFSR	Switch Input Field Unit, Fibox, Dual Contact Closure	$1,220
88WPP3	Pressure Field Unit, Pyramid (Gauge Pressure, 30 PSIG)	$1,300
88WPP4	Pressure Field Unit, Pyramid (Gauge Pressure, 250 PSIG)	$1,300
88WPP1	Pressure Field Unit, Pyramid (Gauge Pressure, 1000 PSIG)	$1,300
88WXP1	Pressure Field Unit, XP Housing (Gauge Pressure, 1000 PSIG)	$1,650
88WPP5	Pressure Field Unit, Pyramid (Gauge Pressure, 5000 PSIG)	$1,350
88WPR	*Temperature Field Unit, Pyramid, RTD	$1,215
88WER	*Temperature Field Unit, EX Housing, RTD	$1,565
88WFR	*Temperature Field Unit, Fibox, RTD	$1,185
88WPT	*Temperature Field Unit, Pyramid, Dual Thermocouple	$1,230
88WFT	*Temperature Field Unit, Fibox, Dual Thermocouple	$1,200
88WET	*Temperature Field Unit, XP Housing, Dual Thermocouple	$1,550
88BDM	Base Radio, DIN rail mount cube, Antenna, Serial Modbus/RS-485	$1,250
88BXM	Base Radio, EX Housing, Antenna, Digital Protocol/RS-485, Serial Modbus/RS-485	$1,450
88B4M	Base Radio, NEMA 4X Housing, Fitting for remote antenna, Modbus/RS-485	$1,430

PART NUMBER	WIRELESS ACCESSORIES	PRICE
88WAU	Universal Interface Module for USB, RS232, Connects to Base Radio	$450
88WAP	Power Supply, 120/240 VAC to 24 VDC, 15W, DIN rail mount	$160
88WAS	Analog and Switch Closure Output Module,DIN Rail	$1,500
88WAB	Battery Replacement Kit	$65
88WAO	Omni Directional 6dBd Pole remote antenna	$425
88WAY	Directional Yagi antenna	$355
88WAL	Lightning/Surge protector with silicone wrap	$182
88WA10	10 foot antenna cable assembly with silicone wrap	$182
88WA25	25 foot antenna cable assembly with silicone wrap	$240

**Sensors not included. See JMS Sensor Catalog for part # configuration or request a free drawing of sensor and transmitter specific to your purchase.*

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