


<b>Description</b>	EMR4 Electronic Meter Register			
<b>EMR4 Standard Hardware</b>	<b>Part # &amp; Description</b>			<b>Features</b> <ul style="list-style-type: none"> <li>System can have two display heads per Interconnect Box (IB).</li> <li>Ability to daisy chain up to 32 display heads (16 IB) into one network.</li> <li>Daisy chained Interconnect Boxes can share a common printer.</li> </ul>
	<b>1.</b>	845593-001	EMR4 Display Head (English)	
		845592-001	EMR4 Display Head (French)	
		845594-001	EMR4 Display Head (Spanish)	
	<b>2.</b>	845593-002	EMR4 Remote Display Head (English)	
		845592-002	EMR4 Remote Display Head (French)	
		845594-002	EMR4 Remote Display Head (Spanish)	
<b>3.</b>	845790-001	EMR4 Interconnect Box (UL/cUL)		
	845760-001	EMR4 Interconnect Box (ATEX/IECEX)		
<b>Installation Kits</b>	845900-304	Tokheim, Daniels, Energy Flow Systems (Donovan)		
	845900-305	Smith Meter, Satam, Avery Hardoll, Petrol Instruments, and Alfons Haar		
	845900-306	LC, TCS, SAMPI, Tuthill		
	845900-308	1-1/2" (3.81cm) - 4" (10.16cm) Neptune and Liqueatech; (Existing w/ Mech. Temp. Comp.)		
	845900-309	1-1/2" (3.81cm) - 4" (10.16cm) Neptune and Liqueatech; (Existing w/o Mech. Temp. Comp.)		
	845900-310	3/4" (1.9cm) - 1" (2.54cm) Neptune and Liqueatech; (Existing w/ Mech. Temp. Comp.)		
	845900-327	Brooks / Brodie		
<b>EMR4 Remote Pulser Kits</b>	<b>Part # &amp; Description</b>			
	845900-504	Top Mount Kit - UL (incl. mounting plate)	845900-552	Top Mount Kit - ATEX
	845900-505	Front Mount Kit for TCS-OEM Applications - UL	845900-553	Front Mount Kit for TCS-OEM Applications - ATEX
	845900-506	Front Mount Kit for Special Applications - UL	845900-554	Front Mount Kit for Special Applications - ATEX
<b>EMR4 Communication: Wireless DataLink</b>	<b>Part # &amp; Description</b>			
	845900-030	EMR4 DataLink Office Kit - 900 MHZ Modem (One office kit per site)		
	845900-031	EMR4 DataLink Truck Kit with keypad - 900 MHZ Modem (One truck kit per Interconnect Box)		
	845900-032	EMR4 DataLink Truck Kit without keypad - 900 MHZ Modem		
	845900-033	High Gain Antenna		
	845900-037	DataLink Kit for Displaying and Storing TLS Tank Level Info (TLS-3XX Consoles)		
	845900-040	DataLink Kit for Displaying and Storing TLS Tank Level Info (TLS-4XX Consoles)		
845900-038	DataLink Kit for Direct Serial Connections to a PC from EMR IB Network			
<b>EMR4 Retrofit Kits</b>	<b>Part # &amp; Description</b>			
	845900-004	Retrofit Kit - Tokheim, Daniels, Energy Flow Systems (Donovan)		
	845900-005	Retrofit Kit - Smith Meter, Satam, Avery Hardoll, Petrol Instruments, and Alfons Haar		
	845900-006	Retrofit Kit - LC, SAMPI, Tuthill, TCS		
	845900-008	Retrofit Kit - 1-1/2" (3.81cm) - 4" (10.16cm) Neptune and Liqueatech; (Existing w/ Mech. Temp. Comp.)		
	845900-009	Retrofit Kit - 1-1/2" (3.81cm) - 4" (10.16cm) Neptune and Liqueatech; (Existing w/o Temp. Comp.)		
	845900-010	Retrofit Kit - 3/4" (1.9cm) - 1" (2.54cm) Neptune and Liqueatech; (Existing w/ Mech. Temp. Comp.)		
	845900-027	Retrofit Kit - Brooks / Brodie - (Temp. Comp.)		

<b>Accessories &amp; Spare Parts</b>	<b>Printer</b>	
	845900-020	Epson Slip Printer Kit (includes cable & cord grip)
	845900-066	Epson Slip Printer
	845900-067	Epson Roll Printer
	845900-313	10' (3.05m) Printer Cable
	845900-071	35' (10.67m) Printer Cable
	<b>Temperature Compensation</b>	
	845900-302	Temperature Probe Kit
	331373-001	Thermowell Group - UL/CUL Listed, Canadian W&M Approved
	<b>Other</b>	
	846000-106	Cable 4- Wire with drain, and armored 35' (10.67m) EMR
	370020-059	2-Stage, 2" (5.08cm) NPT Solenoid Valve Kit 12VDC - UL
	846000-022	Diode Suppression Kit for Solenoid Operated Valves
	846000-028	3-Way Solenoid Valve Kit for US Propane (UL ONLY)
	845900-014	Right-Side Keypad
845900-064	Left-Side Keypad	
330020-432	RS-232 Serial Communication Cable (DB 9 connector with 10' (3.05m) cable)	
845900-021	Emergency Stop Switch	
<b>Specifications</b>		
Operating Temperature	Display Head: -40°F (-40°C) to +140°F (+60°C); Interconnect Box: -13°F (-25°C) to +104°F (+40°C)	
Interconnect Box Installation Location	NEMA 4 or indoors	
Interconnect Box Power Requirements	DC Power: 10-28VDC, 5A (see EMR4 Application Guide for power conditioning requirements)	
Display Specifications	Anti-fog (nitrogen-purged), ultra-bright LED white back-lit display	
Communication Connectivity Methods	DataLink, Pulse Output, RS-232 (On Board Computer (OBC) protocol)	
System Security	Programmable security code for dispensing; compliant with WELMEC 7.2 software guidelines	
Safety Approvals	UL/cUL, ATEX/IECEX, ANZEx, INMETRO and PESO certified	
Metrological Certifications	<b>Certification</b>	<b>Standard</b>
	NMO	OIML R117
	NMi	OIML R117
	NMI	OIML R117
	Measurement Canada	Canada Weights and Measures Act & Weights and Measures Regulations
NTEP	NIST Handbook 44 & NCWM Publication 14 Measuring Devices	
Product Application Guide	577014-339	

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## **Example Illustrations**

Illustrations used in this guide for example sensor installations may contain components that are customer supplied and not included with the sensor. Please check with your Veeder-Root Distributor for recommended installation accessories.

## **Third Party Evaluations**

Third party evaluations of the Veeder-Root sensors contained in this application guide can be found under the Veeder-Root vendor name on the National Work Group on Leak Detection Evaluations (NWGLDE) website:

<http://www.nwglde.org>