

## EC Declaration of Conformity for EMR3 Meter Register.

Issued by: Veeder-Root Environmental Systems,  
Hydrex House,  
Garden Road,  
Richmond,  
Surrey,  
TW9 4NR.

### Description of Equipment (EMR 3)

#### 1 INTRODUCTION

A Veeder Root EMR3 electronic register for use with meter measuring systems was examined for conformance to OIML International Recommendation for Measuring Systems for Liquids Other than Water, R117, Edition 1995 (E). Performance testing was carried out by various test houses, all of which are accredited by accreditation bodies that have international mutual recognition agreements. The test results are summarised below.

#### 2 DESCRIPTION

2.1 The EMR3 system replaces mechanical registers, calibration gears and/or adjuster mechanisms and manual receipts with an automated system. The EMR3 system comprises of the Register Head (display), the Interconnect Box and a printer. The system works in conjunction with a meter to accurately measure liquid deliveries, control liquid flow and print priced receipts. It is electrically powered by a 24 V dc supply.

##### 2.2 EMR3 Register Head (Display)

Electronic pulses from the meter may be passed to the EMR3, or it may be fitted with an optional internal pulser unit mechanically linked to the meter. The EMR3 processes the pulses, converting them into volume using stored calibration values. The unit may also calculate the cost and tax of the delivery. Up to 50 transaction records may be stored in non-volatile memory. The results of the delivery are displayed on the EMR3 and may also be printed on a remote printer. The Head may be fitted with an optional alphanumeric keypad for ease of data entry.

Temperature compensation may also be effected using an optional temperature probe. An approved temperature correction algorithm is stored in the EMR3 for automatic correction when in the temperature correction mode.

##### 2.3 EMR3 Interconnect Box

The Interconnect box provides intrinsically safe power to the register and it is also the control interface between the register and the rest of the measuring system. Internal relays interface the system electronics to the system pneumatics.

# NWML and CE Mark

## U.K. SUMMARY OF TESTS CARRIED OUT

OIML R117	+	-	Report Number	Test House	Accreditation Authority
General Requirements	X		STD 10262	NWML	UKAS
A.4.1 Dry heat	X		DRY062601	Lucent	A2LA
A.4.2 Cold	X		CLD062601	Lucent	A2LA
A.4.3 Damp Heat	X		DMP071201	Lucent	A2LA
A.4.4 Vibration	X		N0391	SIRA	UKAS
A.4.7 Bursts (EN 61000-4-4 (1995-01)	X		EFT091101	Lucent	A2LA
A.4.8 Electrostatic discharge (EN61000-4-2)	X		ESD081501	Lucent	A2LA
A.4.9 Electromagnetic susceptibility (EN61000-4-3)	X		EMS062601	Lucent	A2LA
A.4.10 (i) Voltage variation on dc powered equipment,	X		STD 10262	NWML	UKAS
A.4.10 (ii) ISO 7637 (conducted immunity),	X		EM01006206	I.T.S.	UKAS
Accuracy	X		STD 10262	NWML	UKAS
EN55011 Tests Radio interference characteristics. Class A: Industrial & commercial	X		CSP 062901	Lucent	A2LA
Radiated emissions	X		CSP062901	Lucent	A2LA
FCC Part 15 Tests ( same as EN55011)	X		FCC062901	Lucent	A2LA

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