SCADAMETRICS®
APPLICATION NOTE

How to Read Mueller HbMag MagMeters

8-Digit "Sensus Protocol" –

Size	Gallon	Cubic Feet
3"	EXPn = +1	EXPn = +0
4"	EXPn = +1 or +2	EXPn = +0 or +1
6" and Above	EXPn = +2	EXPn = +1

Notes:

The HbMag always transmits eight (8) AMR digits.

The encoder interface is provided via integral cable, or directly on the internal terminal block of the HbMag register: **91 (Clock), 92 (Data), 93 (Common).**

The resolution is dependent upon meter size (diameter), according to the table above.

If finer resolution is desired, the HbMag may be programmed using the Siemens Flow Tool software (free download), and a USB/Infrared Transceiver Cable.

In addition to the encoder signal, the HbMag also provides a forward pulse-per-volume output on internal terminals 56, 57 (non-polarized). This signal may be interfaced with the EtherMeter® or with the APK/APK.PLUS Analog Pulse Kit.

The pulse weight is configurable via the Siemens Flow Tool software and USB Infrared transceiver, although the following are the factory defaults:

Size (diameter)	Gallon	Cubic Meters
3", 4", 6"	1 pulse = 10 Gallons	1 pulse = 0.1 m^3
8", 10", 12", 14", 16", 18", 20"	1 pulse = 100 Gallons	1 pulse = 1 m^3
24", 28", 30", 32", 36", 40", 42", 44", 48"	1 pulse = 100 Gallons	1 pulse = 10 m^3