

ATTACHMENT F

MATERIALS SPECIFICATIONS

WATER METER AND FITTINGS

PART 1 GENERAL

1.1 SECTION DESCRIPTION

1.1.1 This specification includes but is not limited to water meters.

1.2 MATERIALS

1.2.1 WATER METERS

1.2.1.1 All new water meters 5/8" – 1" shall be manufactured by the Sensus Corporation using the iPERL model. All water meters 1 1/2" and larger shall be manufactured by the Sensus Corporation using the OMNI model (turbo+, compound and fire line).

1.2.1.2 TECHNICAL: All water meters shall be accordance with the latest NFS 61 requirements.

1.2.1.3 All materials shall be non-lead and meet all EPA/NSF requirements.

1.3 DELIVERY AND SHIPPING

1.3.1 Water meters shall be nested or stacked in a way to maximize a standard 20 foot or 40 foot container, whichever is more economical to ASPA.

1.3.2 Supplier must supply all meters within 90 days of award.

SERVICE CONNECTION ASSEMBLY

PART 1 GENERAL

1.1 SECTION DESCRIPTION

1.1.1 This specification includes but is not limited to Service Connection Assembly to existing service water meter box.

1.2 MATERIALS & REFERENCES

1.2.1 All meter brass fittings shall be full port and of the same design as the corresponding fittings indicated. If make and model other than those requested are offered, the make and model are to be shown and the specification literature supplied for the fitting (s) offered. Exceptions must be equal to and interchangeable with the fittings requested.

1.2.2 Gaskets: All gaskets shall be compatible with existing FORD meter box fittings.

1.2.3 All materials shall be non-lead and meet all EPA/NSF requirements.

iPERL Smart Water Meter

Electronic Register

The 9-digit hermetically-sealed electronic register with LCD display was designed to eliminate dirt, fog and moisture contamination in pit settings. The large, easy-to-read display includes AMR digits, direction of flow, units of measure and smart water alarms. The AMR digits and units of measure are fully programmable. The register also provides integrated customer data logging.

AMI / AMR Compatibility

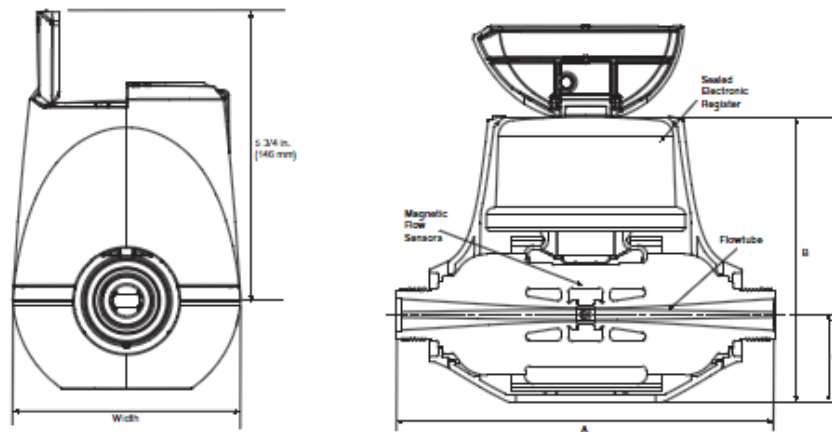
Sensus iPERL meters are compatible with common AMR/AMI systems, including the Sensus FlexNet® communication network.

Conformance to Standards

The iPERL meter far exceeds the most recent revision of ANSI/AWWA Standard C-700 and C-710 for accuracy and pressure loss requirements. All iPERL meters are NSF/ANSI Standard 61 Annex F and G compliant and tested to AWWA standards.

Tamper Resistant

The integrated construction of the iPERL water meter prevents removal of the register to obtain free water. The magnetic tamper and low field alarms will both indicate any attempt to tamper with the magnetic field of the iPERL meter.



Dimensions and Net Weights

Size	A (lay length)	B	C	Spud Ends	NPSM Thread Size	Width	Net Weight
5/8" (DN 15 mm)	7-1/2" (190 mm)	6-1/10" (155 mm)	1-3/4" (44 mm)	5/8" (15 mm)	3/4" (19 mm)	4-1/2" (114 mm)	3.1 lb. (1.4 kg)
3/4"S (5/8" x 3/4") (DN 20 mm)	7-1/2" (190 mm)	6-1/10" (155 mm)	1-3/4" (44 mm)	3/4" (20 mm)	1" (25 mm)	4-1/2" (114 mm)	3.1 lb. (1.4 kg)
3/4" (DN 20 mm)	9" (229 mm)	6-1/10" (155 mm)	1-3/4" (44 mm)	3/4" (20 mm)	1" (25 mm)	4-1/2" (114 mm)	3.2 lb. (1.5 kg)
1" (DN 25 mm)	10-3/4" (273 mm)	6-1/10" (155 mm)	1-3/4" (44 mm)	1" (25 mm)	1-1/4" (32 mm)	4-1/2" (114 mm)	3.3 lb. (1.6 kg)



OMNI+ Compound (C²) Water Meter

1-1/2", 2", 3", 4", 6", 8" and 10"

Strainer

The OMNI+ C² with the AWWA compliant "V" shaped strainer uses a stainless steel screen along with Floating Ball Technology (FBT). This creates a design that greatly improves accuracy, even in difficult settings. A removable strainer cover permits easy access to the screen for routine maintenance.

Maintenance

The OMNI+ C² meter is designed for easy maintenance. Should any maintenance be required, the measuring chamber and/or strainer cover can be removed independently. Replacement parts or complete measuring chambers are available for repairs. OMNI+ C² replacement measuring chambers may also be utilized to upgrade some third-party meters to achieve increased accuracy and extended service life.

AMR/AMI Systems

Meters and Electronic Registers are compatible with current Sensus AMR/AMI systems and other AMI communication systems that use the Sensus UI1203 protocol.

