



Water Meter and Telemetry Module Compatibility

Revision Z22, February 2020

Compatibility List

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Badger Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
ADE4	Any meter that accepts ADE registers			All	All	All	A, E, F, G, H, I
ADE 6 dial	E-Series			All	All	UltraSonic	A, E, F, G, H, I
ADE 9 dial	E-Series			All	All	UltraSonic	F, H, I
HR E LCD16	Any meters that accept HR E registers		12	All	All	All	A, E, F, G, H, I
HR E Mechanical 8 dial	Any meter that accept HR E registers			All	All	All	F, H, I
HR E Mechanical 6 dial	Any meter that accept HR E registers			All	All	All	A, E, F, G, H, I
ADE	M500022 Mag Meter			All	All	All	A, E, F, G, H, I

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403

F	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

Badger Pulsers

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Pulser ERTs By Group
RTR 9 dial ^{28,29}	E-Series			All	All	Ultra Sonic	J, K, L, M, N, O
RTR, Dual RTR	Any meters that accept RTR, Dual RTR or these registers used with Summator/Splitter or Badger's Submersible Connector			All	All	All	J, K, L, M, N, O
RTR	M500022 Mag Meter			All	All	All	J, K, L, M, N, O

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419

	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W	ERW-1601-001
	500WR	ERW-1601-002

Elster AMCO(ABB) Pulsers

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Pulser ERTs By Group
Digital ^{2, 27}	C3000 and C4000			All	All	Compound	J, K, L, M, N, O
Digital ^{2, 27}	C700 ¹			All	All	Positive Displacement	J, K, L, M, N, O
Digital ^{2, 27}	T3000 and T4000			All	All	Turbine	J, K, L, M, N, O
	V100T ₁₀ (PSMT)			All	All	Positive Displacement	J, K, L, M, N, O

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
	100WP-R Pulser remote, 10" cable	ERW-1300-215

M	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W	ERW-1601-001
	500WR	ERW-1601-002

ITRON(Actaris) Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
Cyble Coder ¹²	Flostar			All	All	Single Jet	A, E, F, G, H, I
Cyble Coder ¹²	Woltex			All	All	Turbine	A, E, F, G, H, I
Cyble Coder ¹²	Multimag			All	All	Mult Jet	A, E, F, G, H, I

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
	100W-R Encoder remote, 10" cable	ERW-1300-213
100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214	
	100W-R+ Encoder remote, 10" cable	ERW-1300-313

H	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

ITRON(Actaris) Pulsers

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Pulser ERTs By Group
Cyble Sensor ¹¹	Flostar			All	All	Single Jet	J, K, L, M, N, O
Cyble Sensor ¹¹	Multimag			All	All	Multi Jet	J, K, L, M, N, O
Cyble Sensor ¹¹	Woltex			All	All	Turbine	J, K, M

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
	100WP-R+ Pulser remote, 10" cable	ERW-1300-315

N	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W	ERW-1601-001
	500WR	ERW-1601-002

Krohne Pulsers

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Pulser ERTs By Group
IFC 070 ¹⁹	Waterflux			All	All	Magnetic Flow Meter	K, L, M, N, O

K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
M	100WP-R Pulser remote, 10" cable	ERW-1300-215
	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
N	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
O	500W	ERW-1601-001
	500WR	ERW-1601-002

Kamstrup Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
	flowIQ2100			All	All	Ultrasonic	A, F, H, I

A	60W Encoder, Inline Connector						ERW-0771-202
	60W Encoder, 5' Cable						ERW-0771-212
	60W-R Encoder, Remote						ERW-0771-422
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna						ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna						ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-318 ERW-1300-418
H	100W-R+ Encoder remote, 10" cable						ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device						ERW-1300-314
I	500W						ERW-1601-001
	500WR						ERW-1601-002

MasterMeter Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
AccuLinx18	Any meter that accepts AccuLinx registers			All	All	All	F, H, I
eLinx	Any meter that accepts eLinx registers			All	All	All	A, E, F, G, H, I
Octave23	Any meter that accepts Octave registers	4.0C	1.21S	All	All	All	A, E, F, G, H, I

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
	100W-R Encoder remote, 10" cable	ERW-1300-213

G	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

McCrometer Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
M-Series Converter ²³	880003051	MCMAG1REV1	3.03.00	All	All		A, E, F, G, H, I

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
	100W-R Encoder remote, 10" cable	ERW-1300-213
100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214	
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

Metron Farnier Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
OER ⁴	Any meters that accept the OER register			All	All	Single Jet	A, E, F, G, H, I

A	60W Encoder, Inline Connector						ERW-0771-202
	60W Encoder, 5' Cable						ERW-0771-212
	60W-R Encoder, Remote						ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna						ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna						ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna						ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna						ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna						ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable						ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device						ERW-1300-214
H	100W-R+ Encoder remote, 10" cable						ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device						ERW-1300-314
I	500W						ERW-1601-001
	500WR						ERW-1601-002

Mueller (Hersey) Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
Translator	Any meters that accept the Translator register			All	All	All	A, E, F, G, H, I
SSR	Any meters that accept the SSR register		3.0.12	All	All	All	A, E, F, G, H, I

A	60W Encoder, Inline Connector						ERW-0771-202
	60W Encoder, 5' Cable						ERW-0771-212
	60W-R Encoder, Remote						ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna						ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna						ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna						ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna						ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna						ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna						ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna						ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable						ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device						ERW-1300-214
H	100W-R+ Encoder remote, 10" cable						ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device						ERW-1300-314

I	500W	ERW-1601-001
	500WR	ERW-1601-002

Neptune (Schlumberger) Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
ARB V	Any meters that accept the ARB V register			All	All	All	B, E, G
E-Coder15	Any meters that accept the E-Coder register			All	All	All	C, E, F, G, H, I
ProRead8 or ProRead AutoDetect9	Any meters that accept the ProRead, ProRead Auto Detect register			All	All	All	C, E, F, G, H, I
ProCoder16	Any meters that accept the ProCoder register			All	All	All	F,H,I
	Mach1016			All	All	All	F,H,I

B	60W Encoder, Inline Connector	ERW-0771-204
	60W Encoder, 5' Cable	ERW-0771-214
	60W-R Encoder, Remote	ERW-0771-424
C	60W Encoder, Inline Connector	ERW-0771-205
	60W Encoder, 5' Cable	ERW-0771-215
	60W-R Encoder, Remote	ERW-0771-425
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405

	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

RG3 Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
Tomahawk ²⁰	RG3			All	All	All	A, E, F, G, H, I

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

RG3 Pulsers

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Pulser ERTs By Group
Tomahawk ^{20, 27}	RG3			All	All	All	J, K, L, M, N, O

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
	100WP-R Pulser remote, 10" cable	ERW-1300-215
M	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
N	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
	500W	ERW-1601-001
O	500WR	ERW-1601-002

Sensus (Invensys, Rockwell) Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
ER21	Any meters that accept the ER registers		R1.0.04	All	All	All	A, E, F, G, H, I
ICE7 and ECR7	Any meters that accept the ICE and ECR V registers			All	All	All	A, E, F, G, H, I
iPERL	iPERL			All	All	Electro Magnetic	E, F, G, H, I
OMNI	OMNI T2		1.19	1-1/2"	10"	Turbine	A, E, F, G, H, I

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418

G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

Sensus (Invensys, Rockwell) Pulsers

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Pulser ERTs By Group
PMM ^{5, 6, 27}	PMM			All	All	Multi Jet	J, K, L, M, N, O

J	60WP Pulser, Inline Connector	ERW-0771-301
	60WP Pulser, 5' Cable	ERW-0771-311
	60WP-R Pulser, Remote	ERW-0771-423
K	100WP Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-208
	100WP Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-209
	100WP Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-211
	100WP Pulser, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-212
	100WP Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-219
	100WP Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-220
L	100WP+ Pulser, integral connectors for register and optional direct connect remote antenna	ERW-1300-308 ERW-1300-408
	100WP+ Pulser, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-309 ERW-1300-409
	100WP+ Pulser, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-311 ERW-1300-411
	100WP+ Pulser, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-312 ERW-1300-412
	100WP+ Pulser, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-319 ERW-1300-419
	100WP+ Pulser, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-320 ERW-1300-420
	100WP-R Pulser remote, 10" cable	ERW-1300-215
M	100WP-R Pulser remote, 10" cables for register and telemetry device	ERW-1300-216
	100WP-R+ Pulser remote, 10" cable	ERW-1300-315
N	100WP-R+ Pulser remote, 10" cables for register and telemetry device	ERW-1300-316
	500W	ERW-1601-001
O	500WR	ERW-1601-002

Siemens Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Pulser ERTs By Group
	Mag8000CT- 7ME6820 ¹⁷ Mag8000- 7ME6810 ¹⁷			All	All	All	E, F, G, H, I

E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314
I	500W	ERW-1601-001
	500WR	ERW-1601-002

Zenner (Performance) Encoders

Register Model	Meter Model	Hardware Revision	Firmware Revision	Size From	Size To	Meter Type	Compatible Encoder ERTs By Group
ETR	Hendey			All	All	All	A, E, F, G, H

A	60W Encoder, Inline Connector	ERW-0771-202
	60W Encoder, 5' Cable	ERW-0771-212
	60W-R Encoder, Remote	ERW-0771-422
E	100W Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-202
	100W Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-203
	100W Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-205
	100W Encoder, 5' cable for register, integral connector for optional telemetry device and direct connect remote antenna	ERW-1300-206
	100W Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-217
	100W Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-218
F	100W+ Encoder, integral connectors for register and optional direct connect remote antenna	ERW-1300-302 ERW-1300-402
	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303 ERW-1300-403
	100W+ Encoder, 5' cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-305 ERW-1300-405
	100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306 ERW-1300-406
	100W+ Encoder, 20" cable for register connection, integral connector for optional direct connect remote antenna	ERW-1300-317 ERW-1300-417
	100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318 ERW-1300-418
G	100W-R Encoder remote, 10" cable	ERW-1300-213
	100W-R Encoder remote, 10" cables for register and telemetry device	ERW-1300-214
H	100W-R+ Encoder remote, 10" cable	ERW-1300-313
	100W-R+ Encoder remote, 10" cables for register and telemetry device	ERW-1300-314

Notes

Compatibility acceptance for the meters and meter registers listed in this document was based on Itron's evaluation of communication integrity and electrical interface over various operating temperatures with specified register hardware and firmware revisions. Meter/register features, accuracy, and reliability were not evaluated.

1. Itron ERT is not compatible with 1-½ inch and 2-inch imperial gallons, US gallons *high speed* and cubic feet *high speed* C700 meters with digital registers.
2. Compatible with Elster AMCO digital registers with tamper reed switch.
3. Badger supplies the cable with RTR for remote.
4. Operational Temperature limited to -10° C to +60° C (14° F to 140° F).
5. For ECR III AMR SYSTEM register on PMM meter, refer to ERT part numbers under Invensys/Sensus.
6. Compatible with Precision PMM registers with four mounting holes that accept Precision's blue housing reed switch assembly with four mounting screws.
7. Compatible with all ECR variants and configurations excluding 8-wheel. Register must be programmed as normal or classic reading string and multiplier. Units of measurement must be disabled
8. Neptune's ProRead register must be programmed with Neptune ProRead Portable Programmer as follows:

```
RF/MIU ID SINGLE
DC: E65N or E49N UC: X
ID: X          00
```

Where X is noted in the example, whatever value is programmed is irrelevant to the ERT since this information will not be captured in the ERT module's Standard Consumption Message. DC signifies *Dial Code*. Itron suggests model E65N registers be programmed with this value (for example, 6 encoded wheels with the resolution of last encoded wheel being 0 or 5). Itron suggests E49N registers be programmed with this value (for example, 4 encoded wheels with the resolution of last encoded wheel being 0 through 9).

9. Use the same ERT module as ProRead. The ProRead AutoDetect register does not require programming to work with the ERT unless it is connected to an R900 radio module. If the register has been connected to an R900 radio module, reprogram the register to the configuration listed in note 8 before connecting the ERT module.
10. The V100T is the only approved model of the V100 meter family and is only authorized when using the Elster AMCO meter probe From Table A.

Table A. Approved V100 meter model approved for use with the Elster AMCO meter probe

Table A V100 Meter Model Configurations		
Elster AMCO Order Number	Probe Part Number	Description
2545Q0001	59600-445-5	5ft. cable, no connector
2545Q0002	59600-445-ILC	5ft. cable with inline connector
2545Q0003	59600-635	8" cable used for direct mount
2545Q2452	59600-445-25	25ft. cable, no connector

Table B. V100T meter configurations approved for use

Table B Approved V100T Meter Configurations			
Size	Units	Max. Flow	Pulse Value
15mm	m ³	3 cmh	5 liters
	Imp. Gallons	11 gpm	0.5 gallons
	Imp. Gallons	11 gpm	5 gallons
	US Gallons	13.2 gpm	
	ft ³	1.77 cfm	0.5 cu.ft.
20mm	m ³	5 cmh	5 liters
	Imp. Gallons	18.3 gpm	5 gallons
	US Gallons	22 gpm	
	ft ³	2.94 cfm	0.5 cu.ft.
25mm	m ³	7 cmh	5 liters
	Imp. Gallons	25.7 gpm	5 gallons
	US Gallons	30.8 gpm	
	ft ³	4.12 cfm	0.5 cu.ft.
30mm	m ³	12 cmh	50 liters
	Imp. Gallons	44 gpm	5 gallons
	US Gallons	52.8 gpm	
	ft ³	7.06 cfm	0.5 cu.ft.
40mm	Imp. Gallons	73.3 gpm	5 gallons
	US Gallons	88 gpm	
	ft ³	11.77 cfm	0.5 cu.ft.

11. The Cyble Sensor pulser module must be configured with a K factor of 10; therefore, the least significant consumption value is not reported in the ERT Standard Consumption Message (SCM).
12. The Cyble Coder must be programmed for 7 digits. This will prevent the rightmost or leftmost register wheel value from being reported in the ERT Standard Consumption Message (SCM). Ensure the Coder consumption value is programmed to match the meter register value before connecting to the ERT module.
13. Only applies to registers with Elster AMCO protocol.
14. Register housing must be the three-tab design.
15. E-Coder compatibility is limited to the parameters shown in the following table:

ERT Module	E-Coder Compatibility
60W	Can report only up to 6 left-justified digits.
100W	Factory default setting reports up to 6 left-justified digits. 100W modules manufactured after 4/2012 are compatible with 8-digit register output when reprogrammed for Fixed Network mode and Neptune 8-dial configuration.
100W+ and 500W	Factory default setting reports up to 6 left-justified digits. To read 8-dial register, reprogram using Neptune 8-dial configuration. Note: Will not read a six-dial register after it is reprogrammed to read 8-dials. To re-enable 6-dial operation program using Encoded Register option.

16. ProCoder and Mach10 compatibility is limited to the parameters shown in the following table:

ERT Module	E-Coder Compatibility
100W+ and 500W	Factory default setting reports up to 6 left-justified digits. To read 8-dial register, reprogram using Neptune 8-dial configuration.

17. HR-E LCD compatibility is dependent on the register firmware revision. See the following HR-E LCD compatibility list:

HR-E-LCD	Compatible ERT Model
6-digit output (before September 2015)	60W, 100W, 100W+, 200WP, OpenWay Riva modules
6-digit output (after September 2015, firmware version 12)	60W, 200WP
9-digit output	100W+, OpenWay Riva modules

18. The Siemens Mag800CT-7MEG870 and Mag8000-7ME6810 are Itron-qualified for battery and AC power operation.

19. Register must have visible date code showing manufacturing date of September 2013 (09.13) or later.
20. The Krohne IFC 070 must be programmed to 100ms output. All approved ERT modules must be programmed with the Krohne FDM configuration.
21. The RG3 Tomahawk register is programmable for encoder or pulser. Encoder configurations should be selected based on the model of the endpoint connected. For pulser operation, FDM Endpoint Tools version 3.6 or higher is required to configure the endpoint. Only the leftmost 7 dials will be reported and the endpoint consumption value will increment by one for every 10 meter pulses.
22. Only registers with a manufacturing date of June 2013 or later are approved.
23. The Badger M5000 Mag Meter is approved for the following number of reported digits:
- Note:** Pulser ERTs must be programmed to Badger M5000 7 digit or 100ms Pulse 7 digit driver.

Table C

Table C: Badger M5000 Number of Reported Digits (for listed Itron Module)	
Module	Number of Reported Digits
60W	6
60WP, 100W, 100WP	7
100W+	9
100WP+	7

24. Register is approved for use in the following configurations:

Table D

Table D: Register Configuration	
ERT Module	ERT Module
60W	60W
100W	100W
100W+	100W+

25. 100W/100W+ Series and 60 Series modules are FCC and Measurement Canada approved.
26. The Cadillac Meter is approved for use in the following configurations:

Itron Configurations: Cadillac Meter (Flow Units: Gal/Min and Gallons) for 60WP and 100WP/+						
	B: Display		C: Range	H: DO	J: Count/Pulse	
Size	Display 1	Display 2	R1	DO1	Count	Pulse
					Pulse	Pulse

				Function	Rate	Mode	Width
0.5" Thru 6"	gal/min	Count F	5 m/s	PLS Out	10 gal	Auto	100 ms
8" thru 24"	gal/min	Count F	5 m/s	PLS Out	100 gal	Auto	100 ms
28" thru 36"	gal/min	Count F	5 m/s	PLS Out	1000 gal	Auto	100 ms

Itron Configurations: Cadillac Meter (Flow Units: Ft3/Min and Ft3) for 60WP and 100WP/+							
	B: Display		C: Range	H: DO	J: Count/Pulse		
Size	Display 1	Display 2	R1	DO1 Function	Count Rate	Pulse Mode	Pulse Width
0.5" Thru 20"	gal/min	Count F	5 m/s	PLS Out	10 Ft3	Auto	100 ms
24" thru 36"	gal/min	Count F	5 m/s	PLS Out	100 Ft3	Auto	100 ms

- R1, which is meter flow span setting, is determined by using approximately 5 m/s as maximum system design velocity.
- When Pulse Mode is set to Auto the default for Pulse Width becomes 100 ms.
- Count Rate (Pulse scaling factor) can always be larger than what is listed for any given meter size, just not smaller and meet 100 ms pulse width.
- Pulser ERTs must be programmed to 100ms Pulse 7 digit driver.

27. AquaMaster III Programming Command Settings (6 left most digits sent)

Go to **Menu > 5.0 Flow Settings > Set flow to appropriate units.**

60W and 100W Adjust the following parameters:						
Size	Meter Units	Meter Multiplier	Output Type	Message Type	Digits Sent	Display Label
US Gallons						
1/2" to 1"	> 37 = 5	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
1 1/2" to 3"	> 37 = 0 Special	> 38 = 26.4172	> 324 = 1	> 326 = 0	> 327 = 3	x 10 US Gal
4" to 14"	> 37 = 0 Special	> 38 = 2.64173	> 324 = 1	> 326 = 0	> 327 = 3	x 100 US Gal
16" to 24"	> 37 = 0 Special	> 38 = .264174	> 324 = 1	> 326 = 0	> 327 = 3	x 1000 US Gal
1/2" to 1"	> 37 = 5	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
1 1/2" to 3"	> 37 = 0 Special	> 38 = 26.4172	> 324 = 1	> 326 = 0	> 327 = 3	x 10 US Gal
4" to 14"	> 37 = 0 Special	> 38 = 2.64173	> 324 = 1	> 326 = 0	> 327 = 3	x 100 US Gal
16" to 24"	> 37 = 0 Special	> 38 = .264174	> 324 = 1	> 326 = 0	> 327 = 3	x 1000 US Gal
Cubic Feet						
1/2" to 3"	> 37 = 4	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
4" to 10"	> 37 = 0 Special	> 38 = 353.147	> 324 = 1	> 326 = 0	> 327 = 3	x 10 FT ³

12" to 24"	> 37 = 0 Special	> 38 = 35.3147	> 324 = 1	> 326 = 0	> 327 = 3	x 100 FT ³
Cubic Meters						
1/2" to 20"	> 37 = 2	> 38 = 1	> 324 = 1	> 326 = 0	> 327 = 3	N/A
24"	> 37 = 0 Special	> 38 = 10	> 324 = 1	> 326 = 0	> 327 = 3	x 10 M ³

28. A check valve is needed with Badger RTR E-Series, Elster Digital, Sensus PMM, and RG3 Tomahawk registers for all Water Pulser endpoints to prevent Reverse Flow from causing an ERT/Meter display mismatch.

29. For proper endpoint operation endpoints should be programmed using the Badger E-Series RTR configuration in FDM Tools.

Note: This meter only reports the 7 left most digits and not all 9. The two right most digits represent the sweep hand.

200WM/200WP Remote Endpoints

This section lists meter types compatible with Itron 1.4 GHz water endpoint modules.

Note: Itron reserves the right to change product, system specifications, and meter compatibility without advance notice.

Table D: Approved Meter Configurations

Meter Manufacturer	Meter Register Types	Approved Meters	Notes
Elster AMCO	Encoder: Scancoder, InVISION, Aqua Master, evoQ4, Pulser: Digital, V100T	See file attachment in left pane for approved meter register listing	1, 2, 7
Badger	Pulser: RTR Encoded: ADE E-Series: ADE HR-E-LCD		3
Sensus/Invensys/Precision	Pulser: PMM (with 4-hole blue reed switch housing) Encoded: ICE, ECR III, ECR, ECR WP, AMR System, TR-PL iPERL		4, 5
Hersey/Mueller	Encoded: Translator		
Metron Farnier	Encoded: OER		
Neptune/Schlumberger	Encoded: ProRead, ProRead Auto Detect, ARBV, E-Coder		6, 8
Itron/Actaris	Pulser: Cyble Sensor K10 Encoder: Cyble Coder		
Hendy Performance Meter	Encoder: ETR		
Severn/Trent	Encoder: SmartMeter - Sensus Protocol		
SeS Siemens	Mag8000CT - 7ME6820		

Notes

1. Itron not compatible with 1-½ inch and 2 inch imperial gallons, US gallons *high speed* and cubic feet *high speed* C700 meters with Elster AMCO Digital registers.
2. Compatible with Elster AMCO Digital registers with tamper reed switch.
3. Badger supplies cable with RTR for remote.
4. For ECR III AMR SYSTEM register on PMM meter, refer to ERT part numbers under Invensys/Sensus.
5. Compatible with Precision PMM registers with four mounting holes that accept Precision's blue housing reed switch assembly with four mounting screws.
6. Neptune's ProRead register must be programmed with the Neptune ProRead Portable Programmer as follows:

```
RF/MIU ID SINGLE  
DC: E65N or E49N UC: X  
ID: X          00
```

DC Signifies *Dial Code*. Itron suggests model E65N registers be programmed with this value (for example, 6 encoded wheels with the resolution of last encoded wheel being 0 or 5). Itron suggests E49N registers be programmed with this value (for example, 4 encoded wheels with the resolution of last encoded wheel being 0 through 9.)

7. Only applies to registers with Elster AMCO protocol.
8. The E-Coder is compatible with registers configured for 6-digit ProRead output as well as E-Coder Plus functionality with an 8-digit output. Only E-Coder registers made after 2006 are qualified for use with Itron endpoints.

Telemetry Devices

Table E: Approved Telemetry Devices

Device Manufacturer	Device Model	ERT Type	Part Number
United Systems Corporation (USC)	WCV100	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303
			ERW-1300-403
		100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306
			ERW-1300-406
		100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318
			ERW-1300-418
Smart Earth Technologies (SET)	SETflow™ 100	100W+ Encoder, integral connectors for register and optional telemetry device and direct mount remote antenna	ERW-1300-303
			ERW-1300-403
		100W+ Encoder, 5' cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-306
			ERW-1300-406
		100W+ Encoder, 20" cable for register, integral connectors for optional telemetry device and direct connect remote antenna	ERW-1300-318
			ERW-1300-418
		500W	ERW-1601-001
			ERW-1601-002