



## OVERVIEW

To convert an endpoint field reading into billing units, the reading data management software uses a Test Circle Code to identify the appropriate reading resolution to be applied to the endpoint meter reading. The Test Circle Code for high resolution encoders is based on the meter model and size, encoder type, unit of measure (gallon, cubic foot or cubic meter) and the Badger Meter endpoint that is attached to the encoder.

The following charts have been provided to allow the user to identify the correct Test Circle Code to be entered in the billing system software. For additional information, contact Badger Meter Technical Support.

**ME** = ORION® Migratable Endpoint      **SE** = ORION Fixed Network Endpoint  
**CE** = ORION Classic Endpoint          **TCC** = Test Circle Code for billing software

For FSMA and FSAA, please refer to the appropriate Disc and Turbo Series Charts.

## HIGH RESOLUTION – GALLONS

### Recordall® Disc Series

			Badger Meter Endpoints Solution					
Meter Model	Size	Encoder Resolution (8 Digits)	ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY® (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
LP	5/8", 5/8" x 3/4"	0.1	54	0.1	55	1	56	10
M25	5/8", 5/8" x 3/4"	0.1	54	0.1	55	1	56	10
M35	3/4"	0.1	54	0.1	55	1	56	10
M40	1"	0.1	54	0.1	55	1	56	10
M55	1"	0.1	54	0.1	55	1	56	10
M70	1"	0.1	54	0.1	55	1	56	10
M120	1-1/2"	1	55	1	56	10	57	100
M170	2"	1	55	1	56	10	57	100

### Recordall Turbo Series

			Badger Meter Endpoints Solution					
Meter Model	Size	Encoder Resolution (8 Digits)	ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
T160	1-1/2"	1	55	1	56	10	57	100
T200	2"	1	55	1	56	10	57	100
T450	3"	1	55	1	56	10	57	100
T1000	4"	1	55	1	56	10	57	100
T2000	6"	10	56	10	57	100	58	1000
T3500	8"	10	56	10	57	100	58	1000
T5500	10"	10	56	10	57	100	58	1000
T6200	12"	100	57	100	58	1000	59	10000
T6600	16"	100	57	100	58	1000	59	10000
T10000	20"	100	57	100	58	1000	59	10000

### Recordall Compound Series

			Badger Meter Endpoints Solution					
Meter Model	Size	Encoder Resolution (8 Digits)	ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
High Side T200	2"	1	55	1	56	10	57	100
Low Side M25	2"	0.1	54	0.1	55	1	56	10
High Side T450	3"	1	55	1	56	10	57	100
Low Side M25	3"	0.1	54	0.1	55	1	56	10
High Side T1000	4"	1	55	1	56	10	57	100
Low Side M35	4"	0.1	54	0.1	55	1	56	10
High Side T2000	6"	10	56	10	57	100	58	1000
Low Side M35	6"	0.1	54	0.1	55	1	56	10
High Side T3500	8"	10	56	10	57	100	58	1000
Low Side M120	8"	1	55	1	56	10	57	100

## HIGH RESOLUTION – CUBIC FEET

### Recordall Disc Series

Meter Model	Size	Encoder Resolution (8 Digits)	Badger Meter Endpoints Solution					
			ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
LP	5/8", 5/8" x 3/4"	0.01	53	0.01	54	0.1	55	1
M25	5/8", 5/8" x 3/4"	0.01	53	0.01	54	0.1	55	1
M35	3/4"	0.01	53	0.01	54	0.1	55	1
M40	1"	0.01	53	0.01	54	0.1	55	1
M55	1"	0.01	53	0.01	54	0.1	55	1
M70	1"	0.01	53	0.01	54	0.1	55	1
M120	1-1/2"	0.1	54	0.1	55	1	56	10
M170	2"	0.1	54	0.1	55	1	56	10

### Recordall Turbo Series

Meter Model	Size	Encoder Resolution (8 Digits)	Badger Meter Endpoints Solution					
			ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
T160	1-1/2"	0.1	54	0.1	55	1	56	10
T200	2"	0.1	54	0.1	55	1	56	10
T450	3"	0.1	54	0.1	55	1	56	10
T1000	4"	0.1	54	0.1	55	1	56	10
T2000	6"	1	55	1	56	10	57	100
T3500	8"	1	55	1	56	10	57	100
T5500	10"	1	55	1	56	10	57	100
T6200	12"	10	56	10	57	100	58	1000
T6600	16"	10	56	10	57	100	58	1000
T10000	20"	100	57	100	58	1000	59	10000

### Recordall Compound Series

Meter Model	Size	Encoder Resolution (8 Digits)	Badger Meter Endpoints Solution					
			ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
High Side T200	2"	0.1	54	0.1	55	1	56	10
Low Side M25	2"	0.01	53	0.01	54	0.1	55	1
High Side T450	3"	0.1	54	0.1	55	1	56	10
Low Side M25	3"	0.01	53	0.01	54	0.1	55	1
High Side T1000	4"	0.1	54	0.1	55	1	56	10
Low Side M35	4"	0.01	53	0.01	54	0.1	55	1
High Side T2000	6"	1	55	1	56	10	57	100
Low Side M35	6"	0.01	53	0.01	54	0.1	55	1
High Side T3500	8"	1	55	1	56	10	57	100
Low Side M120	8"	0.1	54	0.1	55	1	56	10

## HIGH RESOLUTION – CUBIC METER

### Recordall Disc Series

Meter Model	Size	Encoder Resolution (8 Digits)	Badger Meter Endpoints Solution					
			ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
LP	5/8", 5/8" x 3/4"	0.001	52	0.001	53	0.01	54	0.1
M25	5/8", 5/8" x 3/4"	0.001	52	0.001	53	0.01	54	0.1
M35	3/4"	0.001	52	0.001	53	0.01	54	0.1
M40	1"	0.001	52	0.001	53	0.01	54	0.1
M55	1"	0.001	52	0.001	53	0.01	54	0.1
M70	1"	0.001	52	0.001	53	0.01	54	0.1
M120	1-1/2"	0.01	53	0.01	54	0.1	55	1
M170	2"	0.01	53	0.01	54	0.1	55	1

### Recordall Turbo Series

Meter Model	Size	Encoder Resolution (8 Digits)	Badger Meter Endpoints Solution					
			ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
T160	1-1/2"	0.01	53	0.01	54	0.1	55	1
T200	2"	0.01	53	0.01	54	0.1	55	1
T450	3"	0.01	53	0.01	54	0.1	55	1
T1000	4"	0.01	53	0.01	54	0.1	55	1
T2000	6"	0.1	54	0.1	55	1	56	10
T3500	8"	0.1	54	0.1	55	1	56	10
T5500	10"	0.1	54	0.1	55	1	56	10
T6200	12"	0.1	54	0.1	55	1	56	10
T6600	16"	1	55	1	56	10	57	100
T10000	20"	1	55	1	56	10	57	100

### Recordall Compound Series

Meter Model	Size	Encoder Resolution (8 Digits)	Badger Meter Endpoints Solution					
			ORION ME/SE (8 digits)		ORION CE (7 digits)		GALAXY (6 digits)	
			TCC	Endpoint Resolution	TCC	Endpoint Resolution	TCC	Endpoint Resolution
High Side T200	2"	0.01	53	0.01	54	0.1	55	1
Low Side M25	2"	0.001	52	0.001	53	0.01	54	0.1
High Side T450	3"	0.01	53	0.01	54	0.1	55	1
Low Side M25	3"	0.001	52	0.001	53	0.01	54	0.1
High Side T1000	4"	0.01	53	0.01	54	0.1	55	1
Low Side M35	4"	0.001	52	0.001	53	0.01	54	0.1
High Side T2000	6"	0.1	54	0.1	55	1	56	10
Low Side M35	6"	0.001	52	0.001	53	0.01	54	0.1
High Side T3500	8"	0.1	54	0.1	55	1	56	10
Low Side M120	8"	0.01	53	0.01	54	0.1	55	1

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