

## Meter Type Codes

Meter types are used to identify meters to NorthStar as AMI meters and inform the MDMS how the meters are programmed and what data is being collected by the meter. An incorrect AMI meter type can result in meter data exceptions in the MDMS, where an incorrect non-AMI meter will result in the meter not properly flex syncing over to the MDMS. Standard nomenclature is used to insure proper setup and configuration of the meters in the MDMS.

Remote-capable disconnect meters must be setup with separate meter types than non-capable meters. If a non-capable AMI type is used for a remote disconnect meter, remote disconnect orders via NorthStar will not process successfully. All remote disconnect meter types must end with the letter D.

Different versions of the same meter (i.e. REX2 vs. REX-U, A3 vs. A4) require different meter types as newer meters can have different capabilities and require different setup. When available we will provide the manufacturer's catalog number to assist with selecting the proper meter type. Please feel free to contact the support team for any assistance.

## Honeywell AMI system – Electric Meter Type Codes

Meter type codes for Honeywell AMI system have separate codes for the separate meter types (Rex/Rex2, Rex-U, A3, A4R, A4CI) and forms. Honeywell catalog number is the easiest way to insure you have selected the correct meter type code. It is possible to have multiple catalog numbers using the same meter type code.

The AMI type field in the Meter Type Code setup screen determines which channels are created in the MDMS to store data being collected by the meter. If set incorrectly, meter data may not load properly into the MDMS. This field is also used to determine interval length (15-min or 60-min) for the channels being setup. If you have meters with the same catalog number programmed with different interval length you will need a separate meter type code for 15-min and 60-min. Reach out to your support team to assist.

If you do not see your catalog number in the lists below, reach out to your support team for assistance.

**A4R meters** – newest Honeywell residential meter (replaces the Rex-U meter). See below table for A4CI meters. Lan or Mesh meters have different catalog numbers from Cat-M1 (cell phone based) meters. Separate meter types will be needed for Lan/Mesh vs. Cat-M1/Cell meters. Cat-M1 meters also require additional setup and activation prior to field installation. Contact your support team for assistance. A 60-min interval length is not available.

Catalog Number	Description	Meter Type Code	15-min AMI Type
<b>HRCWB50GB0010</b>	LAN A4R 2S - cl200, 120-240v, mesh	E-L4R 2S	66
<b>HRCWB5BGB0010</b>	LAN A4R 2S - cl200, 120-240v, mesh, Disconnect	E-L4R 2SD	66
<b>HRCYB50GB0010</b>	LAN A4R 2S - cl320, 120-240v, mesh	E-L4R 2S3	66
<b>HRA2B50GB0010</b>	LAN A4R 3S - cl20, 120-240v, mesh	E-L4R 3S	66
<b>HRC2B50GB0010</b>	LAN A4R 4S - cl20, 120-240v, mesh	E-L4R 4S	66
<b>HR5WB50GB0010</b>	LAN A4R 12S - cl20, 120-240v, mesh	E-L4R 12S	66
<b>HR5WB5BGB0010</b>	LAN A4R 12S - cl200, 120-240v, mesh, Disconnect	E-L4R 12SD	66
<b>HR5YB50GB0010</b>	LAN A4R 12S - cl320, 120-240v, mesh	E-L4R 12S3	66
<b>HRCWB50WA0010</b>	Cell A4R 2S - cl200, 120-240v, CAT-M1	E-C4R 2S	66
<b>HRCWB5BWA0010</b>	Cell A4R 2S - cl200, 120-240v, CAT-M1, Disconnect	E-C4R 2SD	66
<b>HRCYB50WA0010</b>	Cell A4R 2S - cl320, 120-240v, CAT-M1	E-C4R 2S3	66
<b>HRA2B50WA0010</b>	Cell A4R 3S - cl200, 120-240v, CAT-M1	E-C4R 3S	66
<b>HRC2B50WA0010</b>	Cell A4R 4S - cl200, 120-240v, CAT-M1	E-C4R 4S	66
<b>HR5WB50WA0010</b>	Cell A4R 12S - cl200, 120-240v, CAT-M1	E-C4R 12S	66
<b>HR5WB5BWA0010</b>	Cell A4R 12S - cl200, 120-240v, CAT-M1, Disconnect	E-C4R 12SD	66
<b>HR5YB50WA0010</b>	Cell A4R 12S - cl320, 120-240v, CAT-M1	E-C4R 12S3	66

**A4CI meters** – newest Honeywell commercial & industrial meter (replaces the A3 meter). See above table for A4R meters. Lan or Mesh meters have different catalog numbers from Cat-M1 (cell phone based) meters. Separate meter types will be needed for Lan/Mesh vs. Cat-M1/Cell meters. Cat-M1 meters also require additional setup and activation prior to field installation. Contact your support team for assistance. A 60-min interval length is not available.

Catalog Number	Description	Meter Type Code	15-min AMI Type
<b>HC22A30GB0R00</b>	LAN A4CI 5S/35S - cl20, 120-480v, mesh	E-L4C 5S	75
<b>HC82A30GB0R00</b>	LAN A4CI 6S/36S - cl20, 120-480v, mesh	E-L4C 6S	75
<b>HC32A30GB0R00</b>	LAN A4CI 9S - cl20, 120-480v, mesh	E-L4C 9S	75
<b>HC5WA30GB0R00</b>	LAN A4CI 12S - cl200, 120-480v, mesh	E-L4C 12S	75
<b>HC5YA30GB0R00</b>	LAN A4CI 12S - cl320, 120-480v, mesh	E-L4C 12S3	75
<b>HC3WA30GB0R00</b>	LAN A4CI 16S - cl200, 120-480v, mesh	E-L4C 16S	75
<b>HC3YA30GB0R00</b>	LAN A4CI 16S - cl320, 120-480v, mesh	E-L4C 16S3	75
<b>HC22A30WA0R00</b>	Cell A4CI 5S/35S -cl20, 120-480v, CAT-M1	E-C4C 5S	75
<b>HC82A30WA0R00</b>	Cell A4CI 6S/36S -cl20, 120-480v, CAT-M1	E-C4C 6S	75
<b>HC32A30WA0R00</b>	Cell A4CI 9S - cl20, 120-480v, CAT-M1	E-C4C 9S	75
<b>HC5WA30WA0R00</b>	Cell A4CI 12S - cl200, 120-480v, CAT-M1	E-C4C 12S	75
<b>HC5YA30WA0R00</b>	Cell A4CI 12S - cl320, 120-480v, CAT-M1	E-C4C 12S3	75
<b>HC3WA30WA0R00</b>	Cell A4CI 16S - cl200, 120-480v, CAT-M1	E-C4C 16S	75
<b>HC3YA30WA0R00</b>	Cell A4CI 16S - cl320, 120-480v, CAT-M1	E-C4C 16S3	75

**A3 meters** – no longer manufactured, most popular commercial meter currently installed. This table includes both the A3RL and the A3TL meters. Since A3 meters are typically installed at commercial locations, a 60-min interval length is not available.

Catalog Number	Description	Meter Type Code	15-min AMI Type
ZD2210P8082	A3TL with EA_LAN, Form 5S/35S, Class 20	E-A3TL 5S	75
ZD2210P80LG	A3RAL with EA_LAN, Form 5S/35S, Class 20 (kVar)	E-A3RL 5S	75
ZD2210PH082	A3TL with EA_LAN, Form 5S/35S, Class 20	E-A3TL 5S	75
ZD2210PH0LG	A3RAL with EA_LAN, Form 5S/35S, Class 20 (kVar)	E-A3RL 5S	75
ZD3210P8082	A3TL with EA_LAN, Form 8S/9S, Class 20	E-A3TL 9S	75
ZD3210P80L4	A3RL with EA_LAN, Form 9S	E-A3RL 9S	75
ZD3210P80LG	A3RAL with EA_LAN, Form 8S/9S, Class 20 (kVar)	E-A3RL 9S	75
ZD3210P80LM	A3N (instrument profiling) RALNQ with EA_LAN, Form 8S/9S, Class 20 (kVar) – additional setup required, please contact your support team	E-A3NR 9S	75
ZD3210P90L4	A3RL with EA_LAN, Form 9S	E-A3RL 9S	75
ZD3210PH082	A3TL with EA_LAN, Form 8S/9S, Class 20	E-A3TL 9S	75
ZD3210PH0LG	A3RAL with EA_LAN, Form 8S/9S, Class 20 (kVar)	E-A3RL 9S	75
ZD3210PH0LM	A3N (instrument profiling) RALNQ with EA_LAN, Form 8S/9S, Class 20 (kVar) – additional setup required, please contact your support team	E-A3NR 9S	75
ZD3213P8082	A3TL with EA_LAN, Form 9S	E-A3TL 9S	75
ZD3213P80L5	A3RL with EA_LAN, Form 9S	E-A3RL 9S	75
ZD3310P8082	A3TL with EA_LAN, Form 16S	E-A3TL 16S	75
ZD3310P80LG	A3RAL with EA_LAN, Form 16S, Class 200 (kVar)	E-A3RL 16S	75
ZD3310PH082	A3TL with EA_LAN, Form 16S	E-A3TL 16S	75
ZD3310P80L4	A3RL with EA_LAN, Form 16S	E-A3RL 16S	75
ZD3310PH0LM	A3RL with EA_LAN, Form 16S	E-A3RL 16S	75
ZD3410PH082	A3TL with EA_LAN, Form 16S CL320	E-A3TL 16S	75
ZD3410PH0LG	A3RAL with EA_LAN, Form 16S, Class 320 (kVar)	E-A3RL 16S	75
ZD3W10P8082	A3TL with EA_LAN, Form 16S CL320	E-A3TL 16S	75
ZD5310P8082	A3TL with EA_LAN, Form 12S, 3-wire Delta, class 200	E-A3TL 12S	75
ZD5310PH082	A3TL with EA_LAN, Form 12S, 3-wire Delta, class 200	E-A3TL 12S	75
ZD5410PH082	A3TL with EA_LAN, Form 12S, class 320	E-A3TL 12S	75
ZD8210P8082	A3TL with EA_LAN, Form 6S/36S, Class 20	E-A3TL 6S	75
ZD8210P80L4	A3RL with EA_LAN, Form 6S/36S	E-A3RL 6S	75
ZD8210PH082	A3TL with EA_LAN, Form 6S/36S, Class 20	E-A3TL 6S	75

<b>ZD8210PH0LG</b>	A3RAL with EA_LAN, Form 6S/36S, Class 20 (kVar)	E-A3RL 6S	75
<b>ZDZ710PH082</b>	A3TL with EA_LAN, Form 45S	E-A3TL45S	75

**Rex-U meters** – no longer manufactured, most popular residential meter currently installed.

<b>Catalog Number</b>	<b>Description</b>	<b>Meter Type Code</b>	<b>15-min AMI Type</b>	<b>60-min AMI Type</b>
<b>ZHA13000004</b>	REX-U w/EA_LAN Form 1S, 120volt, 30 amp (200A max)	E-REU 1S	66	67
<b>ZHA13A00004</b>	REX-U w/EA_LAN Form 1S, 120volt, 30 amp (200A max) Disconnect	E-REU 1SD	66	67
<b>ZHCW4000004</b>	REX-U w/EA_LAN Form 2S, Class 200	E-REU 2S	66	67
<b>ZHCW4A00004</b>	REX-U w/EA_LAN Form 2S, Class 200, w/ disconnect	E-REU 2SD	66	67
<b>ZHCY4000004</b>	REX-U w/EA_LAN Form 2S, Class 320	E-REU 2S3	66	67
<b>ZHA21000004</b>	REX-U w/EA_LAN, Form 3S, 120 volt, class 20	E-REU 3S	66	67
<b>ZHA23000004</b>	REX-U w/EA_LAN, Form 3S, 120 volt, class 20	E-REU 3S	66	67
<b>ZHA24000004</b>	REX-U w/EA_LAN, Form 3s, 240 volt, class 20	E-REU 3S	66	67
<b>ZHC24000004</b>	REX-U w/EA_LAN, Form 4S, 240 volt, class 20	E-REU 4S	66	67
<b>ZH5W3000004</b>	REX-U w/EA-LAN, Form 12S, Class 200	E-REU 12S	66	67
<b>ZH5W3A00004</b>	REX-U w/EA_LAN Form 12S, Class 200, w/ disconnect	E-REU 12SD	66	67

**Rex/Rex2 meters** – no longer manufactured, listed here for historical purposes.

<b>Catalog Number</b>	<b>Description</b>	<b>Meter Type Code</b>	<b>15-min AMI Type</b>	<b>60-min AMI Type</b>
<b>ZF5WK000000</b>	REX2 w/EA-LAN, Form 12S, Class 200	E-REX 12S	62	61
<b>ZFC2M000000</b>	REX2 w/EA_LAN, Form 4S, 240 volt, class 20	E-REX 4S	62	61
<b>ZFCWM000000</b>	REX2 w/EA_LAN Form 2S, Class 200	E-REX 2S	62	61

**Virtual meters** – used to totalize multiple meters at one location. Additional setup is required, please contact your support team for assistance.

<b>Description</b>	<b>Meter Type Code</b>	<b>15-min AMI Type</b>	<b>60-min AMI Type</b>
<b>E-VIRTUAL KWH</b>	E-VIRTUAL	91	93
<b>E-VIRTUAL KWH, KVARH</b>	E-VIRTUAL	92	
<b>E-VIRTUAL KWH w/REC</b>	E-VIRTUAL	94	

## Sensus AMI system – Electric Meter Type Codes

Meter type codes for Honeywell AMI system have separate codes for the separate meter types (Rex/Rex2, Rex-U, A3, A4R, A4CI) and forms.

The AMI type field in the Meter Type Code setup screen determines which channels are created in the MDMS to store data being collected by the meter. If set incorrectly, meter data may not load properly into the MDMS. This field is also used to determine interval length (15-min or 60-min) for the channels being setup. If you have meters with the same catalog number programmed with different interval length you will need a separate meter type code for 15-min and 60-min. Reach out to your support team to assist.

**Sensus A3 meters** – most popular commercial meter currently installed.

Description	Meter Type Code	15-min AMI Type	60-min AMI Type
<b>A3D 5S</b>	S-A3D 5S	24	11
<b>A3D 6S</b>	S-A3D 6S	24	11
<b>A3D 9S</b>	S-A3D 9S	24	11
<b>A3D 16S</b>	S-A3D 16S	24	11
<b>A3RL 6S</b>	S-A3R 6S	24	
<b>A3RL 9S</b>	S-A3R 9S	24	
<b>A3TL 4S</b>	S-A3TL 4S	24	
<b>A3TL 9S</b>	S-A3TL 9S	24	11
<b>A3TL 12S</b>	S-A3TL 12S	24	
<b>A3TL 16S</b>	S-A3TL 16S	24	
<b>A3TL 35S</b>	S-A3TL 35S	24	

**Sensus Stratus IQ meters**

Description	Meter Type Code	15-min AMI Type	60-min AMI Type
<b>STRATUS IQ 2S</b>	S-IQ 2S	24	11
<b>STRATUS IQ 4S</b>	S-IQ 4S	24	11
<b>STRATUS IQ 12S</b>	S-IQ 12S	24	11

**Sensus Icon A meters** – most popular residential meter currently installed.

Description	Meter Type Code	15-min AMI Type	60-min AMI Type
ICON A 2S	S-IC 2S	24	11
ICON A 2S DISCONNECT	S-IC 2S D	24	11
ICON A 3S	S-IC 3S	24	11
ICON A 4S	S-IC 4S	24	11
ICON APX 9S	S-IC 9S	24	11
ICON A 12S	S-IC 12S	24	11
ICON A 12S DISCONNECT	S-IC 12S D	24	11
ICON APX 16S	S-IC 16S	24	11
ICON A 25S	S-IC 25S	24	11

**Virtual meters** – used to totalize multiple meters at one location. Additional setup is required, please contact your support team for assistance.

Description	Meter Type Code	15-min AMI Type	60-min AMI Type
S-VIRTUAL KWH	S-VIRTUAL	91	93
S-VIRTUAL KWH, KVARH	S-VIRTUAL	92	
S-VIRTUAL KWH w/REC	S-VIRTUAL	94	

## Water Meter Type Codes

Meter type codes for water meters have more flexibility as all water meters collect the same information. Meter type codes can be setup with nomenclature that makes sense to utility staff. The only AMI requirement is to set the proper AMI Type on each meter type for the integration with the MDMS to work properly.

AMI code is based on the AMI system you are utilizing **NOT** the meter manufacturer.

AMI Head End Vendor	AMI Type in Water Meter Type Setup
Honeywell	2
Sensus	1

Our recommendation is to set up meter types by meter size for ease of reporting. Two nomenclature methods used most frequently are below.

1. Meter size and type of meter – in either order
  - a. 5/8" BDGR, 2" OMNI
  - b. BDGR 5/8", OMNI 2"
2. AMI and meter size – in either order
  - a. 5/8" AMI, 2" AMI
  - b. AMI 5/8", AMI 2"