

Primary Lithium Button and  
Cylindrical Cells

# Empowering Smart Metering

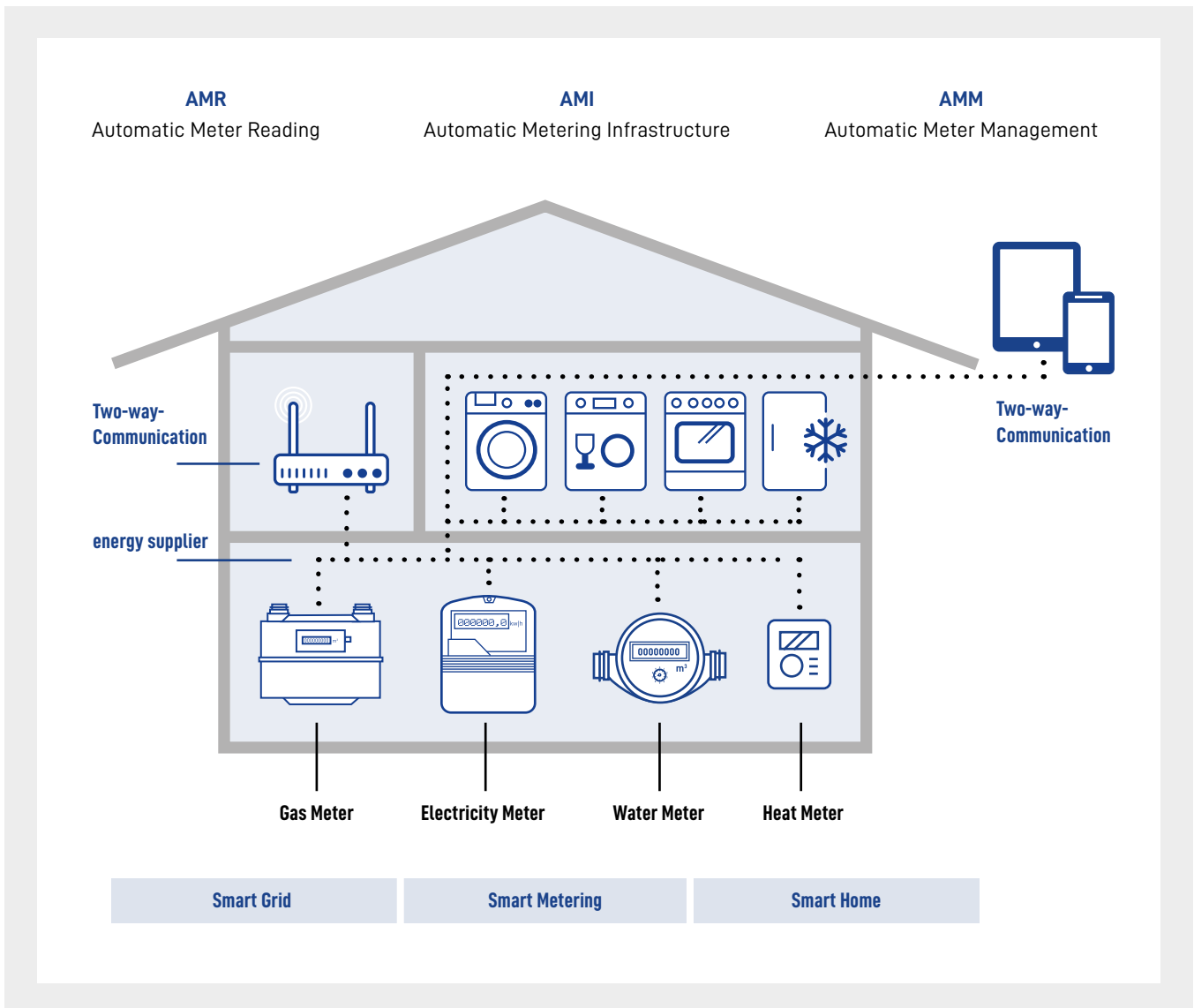


<https://www.varta-ag.com/en/industry/applications/smart-metering>



**VARTA**

Modern communication and metering systems require reliable energy supply.  
VARTA possesses a real-time market experience of over 20 years.



## VARTA batteries provide Power

for gas-, water-, heat- and electricity meters as well as in heat cost allocator and communication modules

## Key Features – Benefits

- Premium energy
- High-level safe products
- UL recognition
- Top performance with wide temperature range
- Superior shelf life and operational life
- High energy density
- Low self discharge
- Resistance to corrosive environments
- Standard and customized solutions
- Wide range of application knowledge

# VARTA offers dedicated „Design in Support“

- Optimal battery selection
- Battery Design In
- Battery specification
- Application tests
- Qualification
- Life time calculation



## Our batteries support the communication of the following network standards

- LORA
- Sigfox
- NB IoT
- Wireless Mbus

## Advantages of 3V MnO2 batteries

- No passivation effect
- Sufficient voltage range of MnO<sub>2</sub>: 3,0 V down to 2,0 V
- ASICs/ICs work down to 1,8 V
- No voltage drop after long-time storage
- No toxic electrolyte
- More than 10 years shelf life

## Product Overview of batteries for Smart Metering

### Lithium Cylindrical Cells (Li-MnO<sub>2</sub>)

TYPE DESIGNATION	TYPE NO.	VOLTAGE (V)	CAPACITY (mAh)	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (g)
<b>CR mass/bobbin series</b>						
CR 1/2 AA	6127	3.0	950	14.75	25.1	11.5
CR 2/3 AA	6237	3.0	1350	14.75	33.5	15.0
CR AA	6117	3.0	2000	14.75	50.5	21.5
<b>CR coiled series</b>						
CR 2	6206	3.0	850	15.60	27.0	11.0
CR 123 A	6205	3.0	1550	17.00	34.5	17.0
CR 1/2 AAH-R	6213	3.0	850	14.22	25.0	9.0
CR 2/3 AAH-R	6214	3.0	1600	17.00	33.5	17.0
CR AAH-R	6217	3.0	2400	17.00	45.0	23.0

### Lithium Button Cells (Li-MnO<sub>2</sub>)

TYPE DESIGNATION	TYPE NO.	VOLTAGE (V)	CAPACITY (mAh)	DIAMETER (mm)	HEIGHT (mm)	WEIGHT (g)
<b>CR coin series</b>						
CR 2016	6016	3.0	90	20.0	1.6	1.8
CR 2025	6025	3.0	165	20.0	2.5	2.5
CR 2032	6032	3.0	230	20.0	3.2	3.0
CR 2430	6430	3.0	300	24.5	3.0	4.0
CR 2450	6450	3.0	620	24.5	5.0	6.2

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Please see webpage.



[www.youtube.com/VARTAMicrobatteryGmbH](http://www.youtube.com/VARTAMicrobatteryGmbH)

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