



### Gas Metering.

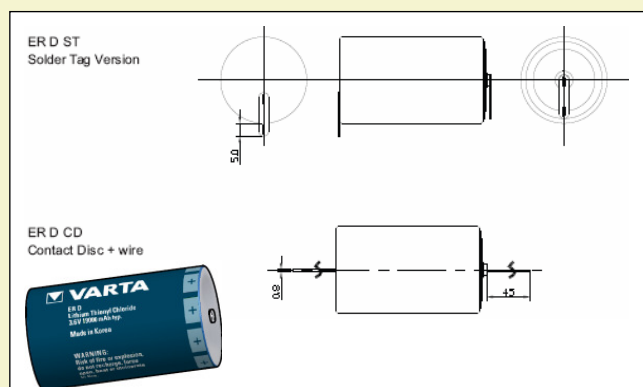
The loss of money caused by a failing meter is a serious concern for the provider of Gas to households and Industry. Usually gas meters are taking data by ultrasonic sensors and need an independent energy source for data acquisition both inside or outside of buildings and rough industrial environment conditions. For the gas supplier it is essential to have high quality and highly reliable battery in their metering system where cost of lost energy and cost of battery must be compared and weighted.

### Battery challenge.

Since data storage and data acquisition has to be done continuously, the backup battery in this application environment must be able to supply a continuous average current of 150uA for a min of 10 years and more in extended temperature conditions with sufficient power to operate shut down valve.

### Technical solution

The ER D Lithium Thionylchloride cell out of the Lithium Primary Round family from VARTA Microbattery is specially designed for long lifetime in backup applications with highest capacity in an Temperature range from -55° to + 85° C.



Characteristics	ER D Battery for gas metering
Voltage level	3.6V
Cont. average discharge current	150uA (80uA cont. 10mA peak)
Cell Capacity	19.000 mAh
Required discharge temperature range	-20° C to +60° C
Lifetime	12 years depending on environmental conditions

### Gas metering Battery

VARTA Microbattery's Lithium Thionylchloride **ER** batteries offer extended Lifetime battery solutions with reliable power for supplying data in metering networks for remote reading. Recommended configurations: ER C, ER D depending on lifetime and power demand.

- wide temperature range from -55 to +85° C
- long lifetime – up to 15 years
- high reliability – laser welded sealing
- high capacity with bobbin construction
- design flexibility on battery shape side-by-side or stacked
- UL recognized cell
- Reliable Lithium Thionylchloride technology for independent, long lifetime applications

## Gas Metering

gas counter function