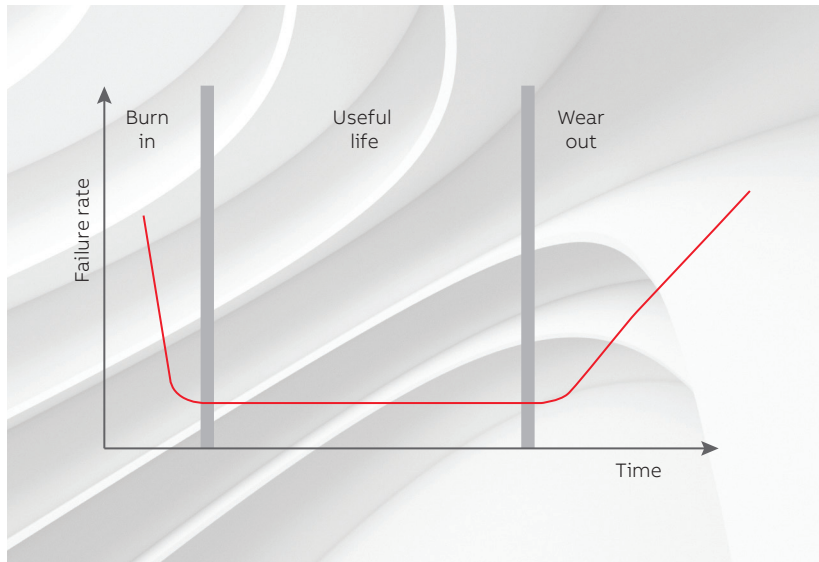


# Life-cycle extension services

When to replace or retrofit your flow product's electronics



Replacing your electronics rather than the whole flow meter can be more cost effective. Products at peak performance help maximize your productivity and profitability

## Measurement made easy

Professional product lifecycle management from our experts

### When will my product wear out?

ABB's flow meters can operate reliably for more than twenty years. Eventually products become unreliable and will fail. Often the electronics fail first.

The life cycle of electronic products when plotted against time resembles a bathtub as shown above. ABB delivers products to customers at the start of the Useful Life phase. When the useful life period ends, the product begins to wear out. Internal electronic components and their connections begin to age causing measurement accuracy to degrade and component failure.

The start of the wear out phase is dependent on environmental and electrical conditions. For example, products in high temperature applications have a shorter life. ABB recommends if your product is more than ten years old then it is time to consider your options.

### My product is over ten years old, what are my options?

Your device is a critical plant component

- If your product is essential to your process and its measurement accuracy affects your company's bottom line performance, then ABB recommend you purchase a new flow metering system.

Your device is a solid performer operating at its peak

- If your budget cannot stretch to a capital investment, retrofitting a state of the art electronics may be a good solution for you.

You're satisfied with the type of device you have

- If you do not see the need to change products then fitting a new replacement electronics could be the best option for you.

Flow service catalog



Flow service website



Flow verification



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Find the best solution:  
replacement vs. retrofit

## Why choose a replacement?

**Process availability** – reduction in unscheduled maintenance ensuring maximum uptime of your plant or process

**Cost reduction** – maintain a common installed base, no additional training required

**Process optimization** – your process is already optimized

**Spare parts availability** – your product is old, it may be difficult to get spare parts and support for it in the future

## Why choose a retrofit?

**Process availability** – reduction in unscheduled maintenance maximizing uptime of your plant or process

**Ease of use** – new technology provides more detailed and more intuitive displays, extra diagnostic functions, more communication options

**Accuracy** – without calibration of sensor and transmitter as a pair, measurement accuracy is in the range of 1 to 2 %

### Replacements



MagMaster, XE, XM, AquaMaster, FSM4000

### Retrofits



ProcessMaster, WaterMaster, AquaMaster

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To find your local ABB contact, visit:

[abb.com/contacts](http://abb.com/contacts)

For more information visit:

[abb.com/measurement](http://abb.com/measurement)

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