



Folder

# EQ meters made for interaction Communication

Power and productivity  
for a better world™



# EQ meters made for interaction

## Use of meter data

The use of AMR systems aims for billing or distribution of cost for the usage of energy. When you have a communication network for EQ meters, why not increase the scope and improve the cost/benefit ratio! Modern meters like EQ meters provide essential information for those who handle an asset.

Here are some examples:

- Reactive energy readings can verify the charges from the utility, otherwise hard to negotiate. Localizing and reduce the sources of reactive energy consumption can reduce cost.
- Harmonics can have severe impact on several essential systems leading to lost productivity and increased service costs. Read out the THD from an EQ meter and take action.
- Maximum demand registrations help to find reasons behind and avoid penalties from the utility.

- Readings on phase level can provide information on unbalanced load, faulty voltage levels etc.
- Event log will keep you in touch with the quality of your power supply and what happens with your meters.
- Load profiles give you the overview of your energy usage and enables tracking of patterns indicating waste of energy.

By reading and using the extended information from the meter a facility- or production manager can act and reduce the impact of poor demand planning or power quality. No penalties/fees and machines with longer running time without failure will have a positive influence on the bottom line.



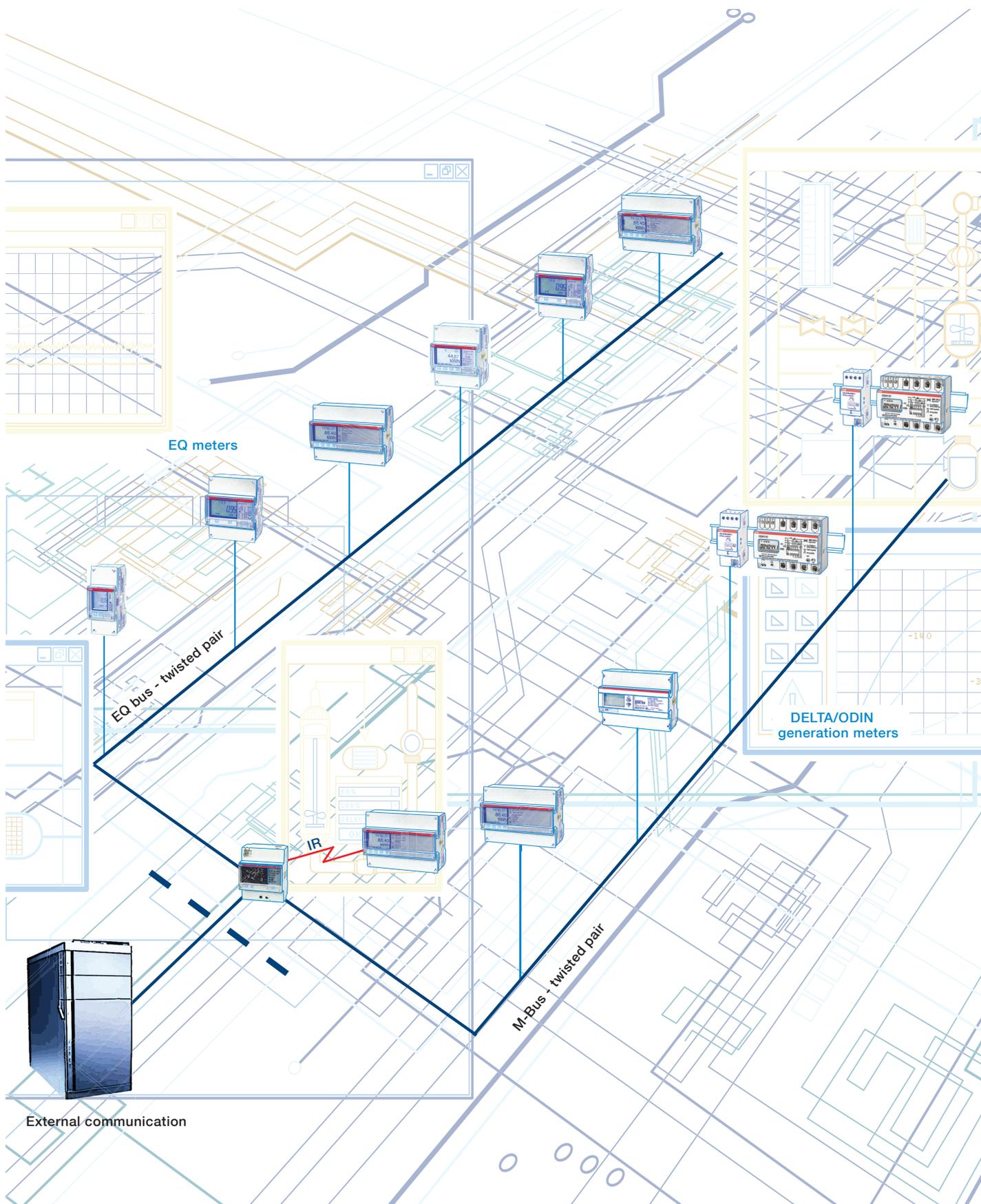
## Ethernet gateway

### Gateway G13 for fast, reliable and easy access to meter data

G13 is the new Ethernet gateway that will make data collection from a meter network very convenient. It is connected via a RJ 45 to Ethernet on the supervisory side. Communication protocol JSON makes more flexible system integration. The gateway is also equipped with a webserver that provides a detailed overview of all meters installed in a network as well as the possibility to perform advanced configurations of the meters.

The gateway communicates with EQ meters over EQ bus, a communication protocol based on IEC standards (DLMS/cosem), over RS-485.

The gateway can also work as an M-Bus master for up to 16 M-Bus enabled ABB meters. This gives the user enhanced options to easily and seamlessly manage and integrate the sub-metering system.



EQ meters

EQ bus - twisted pair

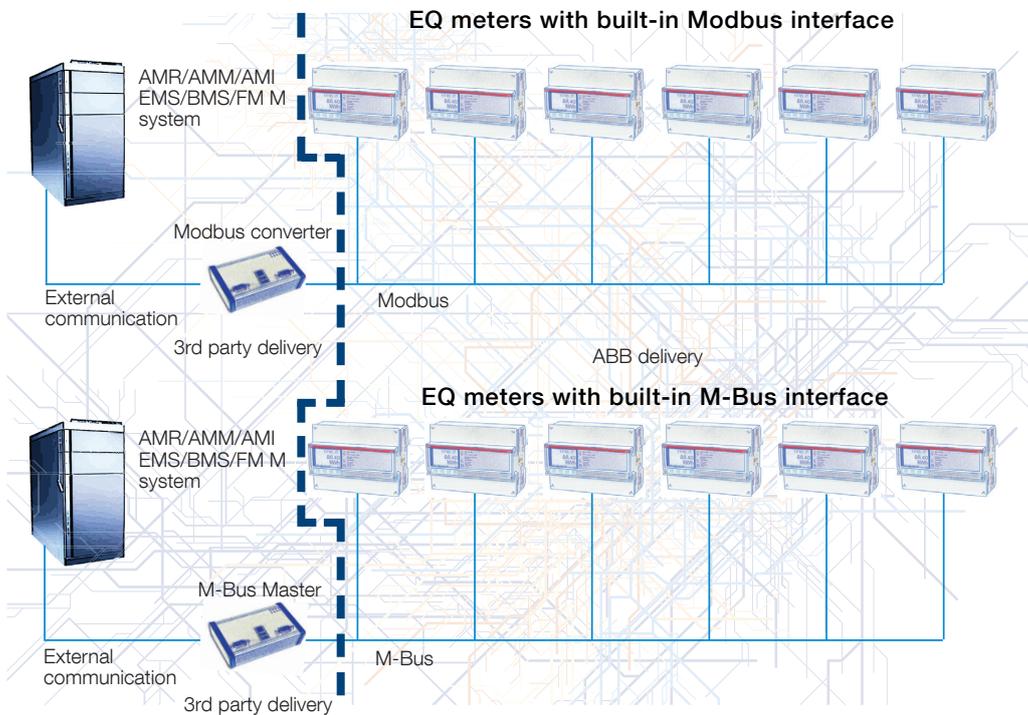
IR

M-Bus - twisted pair

DELTA/ODIN  
generation meters

External communication

## Communication



The EQ meters in A and B series has optional built-in serial communication interfaces for M-Bus or Modbus RTU. These options are intended for usage in cases where the customer prefers or already has a set up for Modbus or M-Bus. In these cases ABB supply commitment is only the meters and all other communication equipment must be purchased elsewhere.

## A series

The A series meters ranges from basic up to advanced functionality without any comparison.

### General features

A series meters provide the full spectrum of possible readings from EQ meters. Huge data storage for load profiles and previous values will retain data series as back up in any event of broken communication. Instantaneous values for several electrical parameters improves benefit/cost ratio when used. The backlighted pixeloriented display can display up to four quantities at the same time.

## B series

B series is compact meters without any compromises on performance or features.

### General features

B series meters provide reliable meter data and instantaneous values for several electrical parameters. B series are built on the same sturdy base as the A series but in a more compact housing. B series is your choice for a basic meter for both kWh and kvarh. They can have up to four tariff registers with external shift. The big backlighted LCD display clearly presents meter values.



# EQ meters made for interaction

EQ meters from ABB comes with a pedigree of quality and front line technology since the first ever DIN rail mounted meter produced by us in 1984. We drive the technology further and offer a wide modern range of electricity meters for demanding Customers.

All our meters deliver reliable values even in harsh environments, both electrical and ambient. EQ meters is a part of the well-known ABB quality from a reliable supplier. You can simply trust an EQ meter to supply the correct value.

## General

A diverse meter range for most standard single and three phase applications.

EQ meters are suitable for installation in panels, distribution boards and small consumer units. The wide temperature range allows them to be installed in various environments. Navigating and configure<sup>1)</sup> EQ meters is easily done via communication or the push-buttons below the display.

<sup>1)</sup> EQ bus and Modbus RTU.

All EQ meters from ABB are type approved according to IEC and MID. As standard the A and B series are also verified according to MID which is optional for C series.

All EQ meters from ABB have as a minimum the following instrumentation values:

- Active power
- Voltage
- Current
- Power factor

EQ meters is the new range of meters for sub-metering and energy efficiency from ABB. EQ meters come in three product series and up to five functionality levels of each series, and in single phase or three phase versions.

- The C series are products, without communication, intended for stand alone energy measurement up to 40 A direct connected.
- The B series is a basic meter product range for installations up to 65 A direct connected or transformer connected (CT).
- The A series is a advanced meter product range for installations up to 80 A direct connected or transformer connected both for current and voltage (CT/VT).

## Communication with A and B series

Built-in serial communication interfaces for M-Bus, Modbus RTU or EQ bus.



# Contact us

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