



ABB Energy Efficiency Portfolio

Metering solutions from basic to advanced

Single function and Multi-function Metering solutions

ABB analog and digital single and multi-function instruments easily allow the monitoring of all the simplest electrical parameters.

Basic Metering solutions

On top of the simplest measurements, ABB basic Multi-function meters also monitor Energy and Power. They are available with option for Modbus communication.



M1A



M1V



M1M 12



M1M 11



EQ meters D series



M1M 10



M1M DS



EQ meters B series

Intermediate Metering solutions

Intermediate level solutions offer a wider range of measurements - including THD, Individual Harmonics and Unbalances - and functionalities - such as I/O, Timers, RTC and Alarms as optional choice.

Advanced Metering solutions

M4M suits all power monitoring needs: from high-accuracy energy efficiency monitoring of electrical parameters to complete power quality analysis through advanced KPIs via cloud.



EQ meters
D series



EQ meters
A series



M1M 15



M1M 20B



M1M 30B



M1M 20



M1M 30



M4M 2X



SCU - 200



SCU-100
InSite Pro (CMS)



M4M 20



M4M 30

Measurement made simple

Making difference with M1M range of meters in sub-distribution switchboards.



Commercial Buildings



Industrial Plants



Public Buildings

Measurement made simple

Value proposition

Simple to use

- Intuitive visualization of the parameters on the bright LED display
- Enhanced clarity in data reading and device configuration

Easy choice

- Maximum 2 steps to select the correct product for your application

Easy to install and stock

- Compact product design and optimized volumetric weight of packaging
- No tools required for product mounting, thanks to mounting clips

System integration

- Remote monitoring in any Modbus RTU supervision system thanks to the optional RS485 port



M1M DS

Your benefits



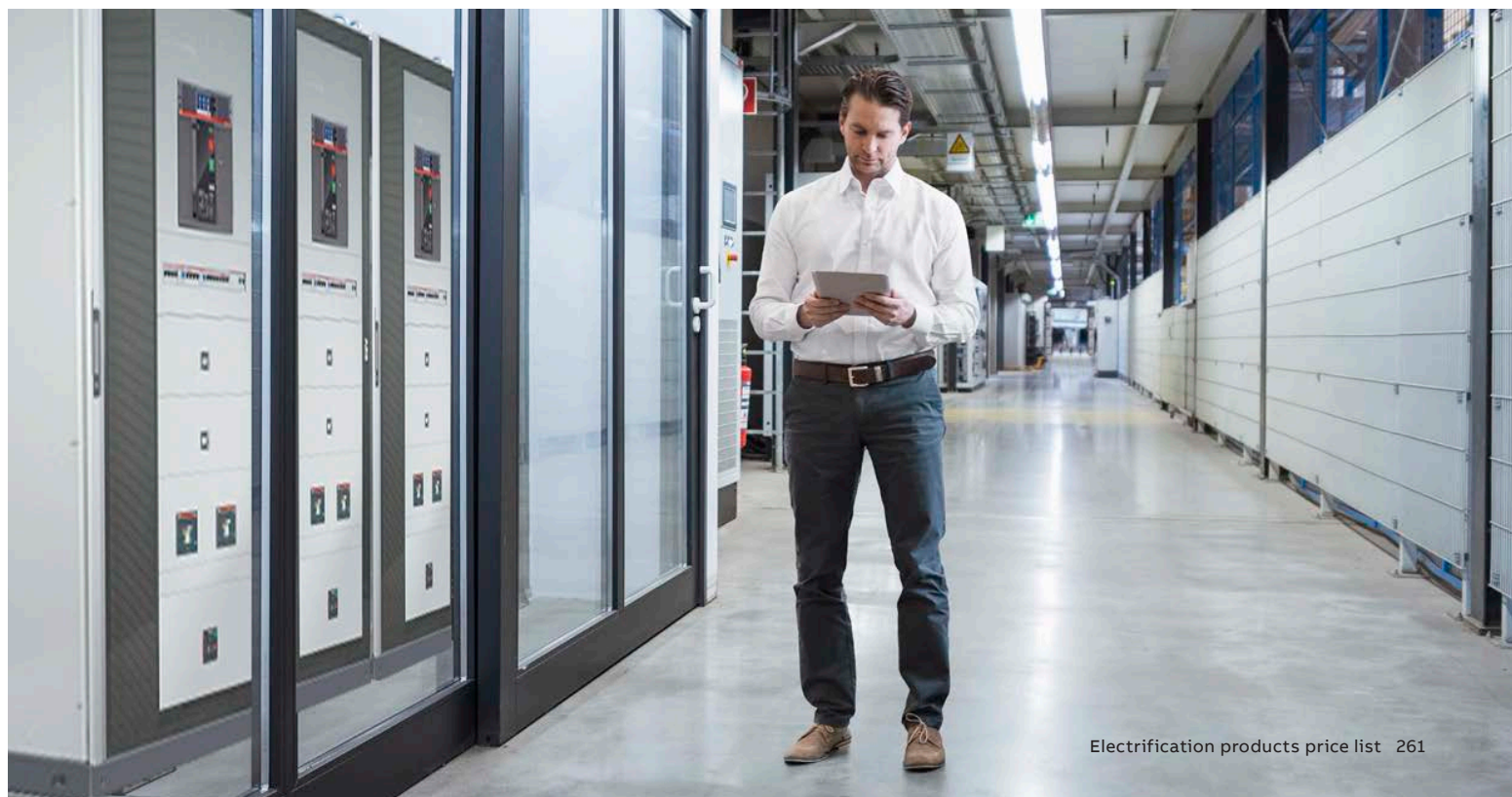
For distributors

- Save space needed for internal stock
- Fast selection of the correct product for your orders
- Handle a minimum set of order codes



For panel builders

- Reduce the time needed for meter installation on the panel
- Fast selection of the correct product for your application
- Increase the number of projects covered with the same product



Technical features



Product type		Single Function and Multi-function meters M1M			
Product range		M1A 1-1 Ammeter	M1A 3-1 Ammeter	M1A 3-05 Ammeter	M1V 1-1 Voltmeter
Mounting		Front panel	Front panel	Front panel	Front panel
Standards	IEC 62053-21/22	#	#	#	#
	IEC 61557-12 PMD	-	-	-	-
	IEC 61000 4-2, 4-3, 4-4, 4-6, 4-8, 4-11	-	-	-	-
	IEC 61010-1	■	■	■	■
HMI	Display	LED	LED	LED	LED
	Accuracy Class	Class 1	Class 1	Class 0.5	Class 1
Measurement	Auxiliary Power Supply (80 - 300V AC/DC, L-N)	■	■	■	■
	Voltage measurement range	-	-	-	300V Max. AC (L-N)
	Current Measurement range	50mA - 6A	50mA - 6A	50mA - 6A	-
	Measurement via CT (.../1A or .../5A)	■	■	■	-
	Measurement via Rogowski coils	-	-	-	-
	Sample per cycle	32	32	32	32
Real-time	Current (I), Voltage (U, V), f	I	I	I	V
	Active Power (P), PF	-	-	-	-
	Reactive (Q), Apparent (S) Power	-	-	-	-
	Timers	-	-	-	-
	On hours and load hours	-	-	-	-
Energy	Active energy	-	-	-	-
	Reactive, apparent energy	-	-	-	-
	4 quadrants energy (import/export)	-	-	-	-
Power Quality	THD	-	-	-	-
	Harmonics	-	-	-	-
	Unbalances	-	-	-	-
	Neutral current	-	-	-	-
Logging	Alarms	-	-	-	-
	Complex alarms with logics	-	-	-	-
	Min/max/demand	-	-	-	-
	Flash memory	-	-	-	-
	RTC	-	-	-	-
	Graphs visualization	-	-	-	-
HMI	Homepage and favourite page	-	-	-	-
	Password protection	■	■	■	■
	Standard I/O	-	-	-	-
	Additional I/O	-	-	-	-
	M-bus	-	-	-	-
	Modbus RTU	-	-	-	-
	Modbus TCP/IP	-	-	-	-
	Profibus DP-V0	-	-	-	-
	BACnet/IP	-	-	-	-
	Bluetooth	-	-	-	-
	Automatic integration in System pro M compact® InSite	-	-	-	-
	Automatic integration in ABB Ability™ Energy and Asset Manager	-	-	-	-
	InSite-bus flat cable	-	-	-	-

Calibration document included in the product packaging.
 * Only one energy parameter Active / apparent can be configured in meter setting
 \$ Only one user selectable parameter can be configured in meter setting

