Measure, plan and improve operating efficiencies
Easy select meter chart
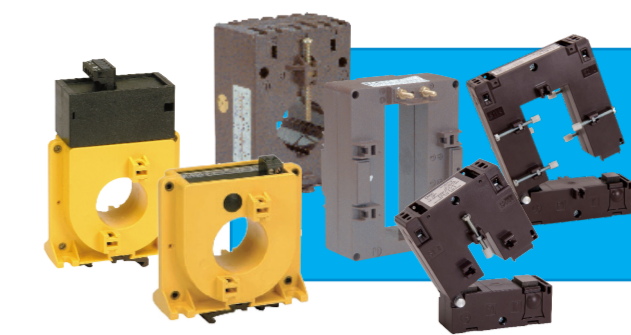
NHP

	Single phase energy meters			Three phase direct connect energy meters		Three phase CT connect energy meters			
	Direct connect 45A Electromechanical kWh counter	Direct connect 45A LCD touch display energy meter	Direct connect 100A LCD touch display energy meter	Direct connect 63A Advanced energy meter with optional input for gas or water metering[1]	Direct connect 100A energy meter	CT connect Energy meter and retrofit option available	CT connect 3-in-1 energy meter and retrofit option available	CT Connect Energy meter CT+3 IN+RS485 NMI Approved	CT connect Advanced energy meter with optional input for gas or water metering[1]
	EM110	**EM111**	**EM112**	**EM540DIN**	**CONTO D6**	**EM210 / EM2172R**	**EM270 / EM271**	**EM24DIN (NMI)**	**EM530DIN**
Base meter with no communication	EM110DINAV81XO1X	-	-	-	CE6DT1252	EM21072DAV53XOXX	-	-	-
Meter with RS485 modbus RTU	-	EM111DINAV81XS1X	EM112DINAV01XS1X	EM540DINAV23XS1X	CE6DT1256	EM21072DAV53XOSX	EM27072DMV53X2SX[3]	EM24DINAV53DISX26	EM530DINAV53XS1X
Meter suited to retrofit applications	-	-	-	-	-	EM2172RVV..XOSX[2]	EM17172DMV53X2SX[4]	-	-
Active energy accuracy / IEC 62053-21	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 0.5S
Maximum demand power	-	✓	✓	✓	✓	-	✓	✓	✓
Four quadrant monitoring	-	✓	✓	✓	-	✓	-	✓	✓
Power factor	-	✓	✓	✓	✓	✓	✓	✓	✓
DIN rail mount	✓	✓	✓	✓	✓	✓	✓	✓	✓
Panel mount	-	-	-	-	-	-	✓	With 4DIN96ADAPTER	-

	Three phase multi-function meters (MFMs)			Power analysers		Energy management			
	LCD advanced DIN rail MFM	LCD panel mount MFM	LCD panel mount MFM	LCD advanced MFM and power analyser	Power analyser 1426 series	Branch circuit monitoring solution	MODBUS TCP/IP gateway and data logger	Enclosed energy management system	Energy management software
	Nemo D4 LE	**Nemo 96HD**	**WM40**	**NEMO 96 EA**	**PM5000**	**WM50 BCMS**	**UWP 3.0**	**SMART eBox**	**EM² - Server**
Base meter with no communication	MFD4411	NEMO96HD	WM40AV53H	-	* Please contact NHP	WM50AV53HBC	UWP30RSEXXX	* Please contact NHP	* Please contact NHP
Meter with RS485 Modbus RTU	MFD4421	Base meter plus add-on module[5]	Base meter plus add-on module[5]	MFQ96021					
Meter with RS485 BACnet RTU	MFD44B1	Base meter plus add-on module[5]	Base meter plus add-on module[5]	MFQ96021 + IF96014					
Active energy accuracy / IEC 62053-21	Class 0.5	Class 0.5	Class 0.5	Class 0.5	Class 0.2				
Maximum demand	✓	✓	✓	✓	✓				
Four quadrant monitoring	✓	✓	✓	✓	✓				
Power factor	✓	✓	✓	✓	✓				
Total harmonic distortion	THDI and THDV up to 50th harmonic	THDI and THDV up to 22nd harmonic	THDI and THDV up to 32nd harmonic	THDI and THDV up to 40th harmonic	THDI and THDV up to 127th harmonic				
Other			Up to 16 x configurable alarms	Measurement of: • Voltage dips • Voltage interruption • Voltage swells • Flickers • Rapid voltage change	Measurement of: • Sag and swell detection • Flicker • Waveform log • Transient voltage and currents (M8 version) • THD and individual harmonics up to the 127th (M8 version)	• Base meter part no. WM50AV53HBC • 12 x channel current transformer part no. TCD12BS32AX • Cable connection for TCD12, TCD12WSS2T1XXX7) • WM50 can connect to 8 x TCD12 CTs, therefore monitor up to 96 single phase loads or any combination of single and three phase loads up to 96 channels. • Quick and easy to install and configure • Channel load measasurement: A, THD curent, W/var/VA, PF, kWh • Event and data log with onboard memory • 16 internal alarms	• Embedded web-based energy management system • Customisable monitoring dashboard and reporting • Connects up to 64x meters via Modbus RTU, connect to additional meters via Modbus TCP/IP • Compatible with a wide range of energy meters • Simple and quick to configure • 4GB data logging for interval time date stamping of real time variables • Transfer data via FTP, HTTP, NTP, Modbus TCP, BACNet/IP	• Customisable all-in-one EMS solution accessible through browser, smartphone or tablet • Guaranteed compliance to NCC Section J9D3 (3) • Compatible with wide range of energy meters and power distribution products – connect up to 64 devices • Easy to install and upload live data to cloud platforms such as Carlo Gavazzi EM², Microsoft Azure and AWS	• On site server-based software service • Connects up to 100x VMUC's and UWP3.0 • Multi-site applications • Live dashboards • All meter information exportable in .csv • Alarm and alert reporting • Fault detection and diagnostics
Add-on communication module									
RS485 Modbus RTU	-	IF96001	MC485232	Included as standard	On request	MC485232			
Modbus TCP/IP	-	IF96015	MCETH	IF96015	Native to meter	MCETH			
BACnet MS/TP	-	-	-	-	-	-			
BACnet IP	-	-	MCBACIP	-	-	-			
Memory + RS485 Modbus RTU	-	IF96012	MC485232M	Memory built in 8 MB	-	Memory built in			
Memory + MODBUS TCP/IP	-	-	MCETHM	Memory built in 8 MB	-	Memory built in			
Memory +BACnet IP	-	-	MCBACIPM	-	-	-			

1) Input for gas or water metering available
2) Replace ... with '23' for 3x 90A split core CT's; '33' for 3x 150A split core CT's; '53' for 3x 250A split core CT's
3) Solid core current transformers to suit EM270 – TCD1X160200CMX (160A primary); TCD2X250200CMX (250A primary); TCD3X630200CMX (630A primary)
4) Split core current transformers to suit EM271 - TCD1M10080CMX (100A primary); TCD2M20080CMX (200A primary); TCD3M40080CMX (400A primary)
5) Communication module part number needs to be ordered along with base multi-function meter. Example: Want WM40 meter with RS485 Modbus RTU = WM40AV53H and MC485232
7) Replace "xxx" with either 030, 050, 100, 200, 300 or 500 for desired cable length in cm.