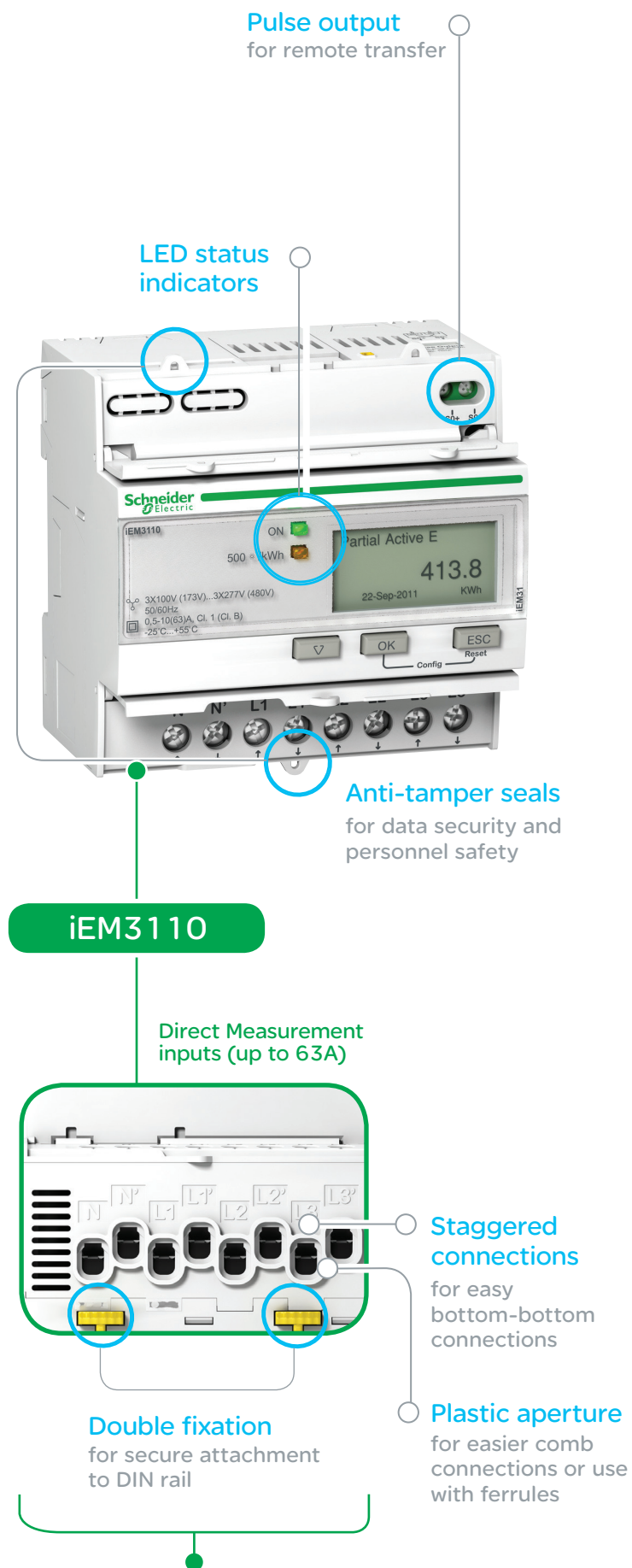


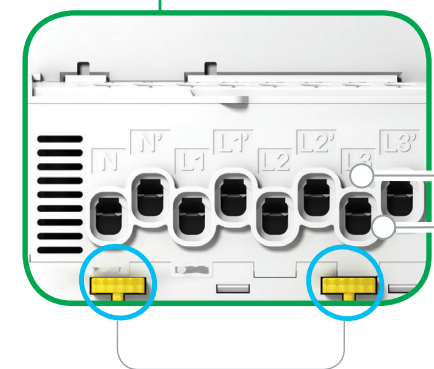
iEM3000 series energy meters

Meet your customers' demanding expectations with the right meter



iEM3110

Direct Measurement inputs (up to 63A)



Staggered connections for easy bottom-to-bottom connections

Double fixation for secure attachment to DIN rail

Plastic aperture for easier comb connections or use with ferrules

All iEM3100 models are direct connect up to 63A

Simple & smart

Order with ease and minimise stock

- > 23 references to cover most installation requirements
- > Each meter supports 1P, 2P, 3P, and 3P+N wiring connections

Save installation time, costs and space

- > Bottom-to-bottom, direct connection up to 63 A (iEM3100 models) and 125 A (iEM3300 models)
- > 1 A/ 5A CTs and PTs for connections (iEM3200 models)
- > Plastic aperture shaped to assist comb connection and fixation (iEM3100, iEM3300 models)
- > Large connections with plastic aperture accommodate ferrules and increase user protection by limiting access conducted parts once the meter is installed (iEM3100, iEM3300 models)
- > Separation of power (bottom) and communication (top) connections reduces risk of incorrect wiring
- > Measure three single-phase loads with an iEM3000 and the energy consumption information for each load is available through communications (iEM3100, iEM3300 model with communication port)

Commission safely with ease

- > All terminals are finger proof (IP20), so installers can not touch any live terminals
- > LED indicators provide visual status of meters (i.e. energised and communicating)

Use with confidence

- > Graphic display makes it easy to accurately read the descriptions of displayed values
- > Easy navigation for setup and display

The iEM3000 series energy meters are a cost-attractive, feature-rich energy-metering offer ideal for helping your customers' installations become more energy efficient while reducing your own installation and commissioning costs thanks to their efficient design. The meters support a variety of protocols (Modbus, LON, M-bus, BACnet) that allow them to integrate seamlessly into your customers' existing networks and bring simple energy management applications to any building. The offer ranges from very basic kWh meters for the most basic applications to MID-compliant meters for billing applications to advanced energy meters able to measure a variety of electrical parameters. Whether you require a simple kWh meter or a full-featured, multi-tariff energy meter, there is an iEM3000 series meter that is the best fit for your panel and your customer's application.

Reliable & accurate

Accurate information

- > MID approved on certain models
- > Accuracy class 1.0 and 0.5S (IEC 62053-21/22) for active energy metering
- > Compliance to regulations EN50470-1/3, IEC 61557-12, IEC 62053-21/22, IEC 62053-23

Data integrity

- > Anti-tamper sealing parts prohibit accessibility to all metering connections (voltage, current, DI/DO)
- > Save date/time of last reset to verify start of measurement campaigns and know if clock was altered

Robust design

- > Double fixation offers greater stability, allows installation vertically or in high-vibration environments
- > Well protected for normal use: IP40 on front face, IP20 on terminals

BENEFITS OF ENERGY MANAGEMENT APPLICATIONS

Optimise energy consumption & enable energy efficient practices

- > Collect and analyse all consumption data (WAGES) from each area for each type of load or circuit
- > Gain an accurate understanding of business expenses by allocating all energy-related costs
- > Implement actions designed to reduce energy consumption and promote energy efficiency

Monitor the energy consumption of tenants or customers and establish accurate invoices

- > Allow building owners to bill tenants for individual measured utility usage.
- > Give accurate and achievable objectives for energy saving
- > Drive energy-efficient behaviour



Extensive protocol support with Modbus, M-bus, BACnet, LON



MID certified for billing applications

More than just kWh

Measurement parameters

- > Total and partial kWh to discover consumption behaviour
- > Four-quadrant metering to differentiate energy consumption
 - > Target green technologies (delivered/received)
 - > Help reduce utility penalties (active/reactive)
- > Additional parameters (P, Q, S, V, PF, F) to help monitor network balance and overload behaviour

Multiple tariffs

- > Save up to 4 different time slots to manage multiple tariffs (peak/off-peak, weekday/weekend)
- > Control tariffs via digital inputs, internal clock or communications

Programmable digital inputs

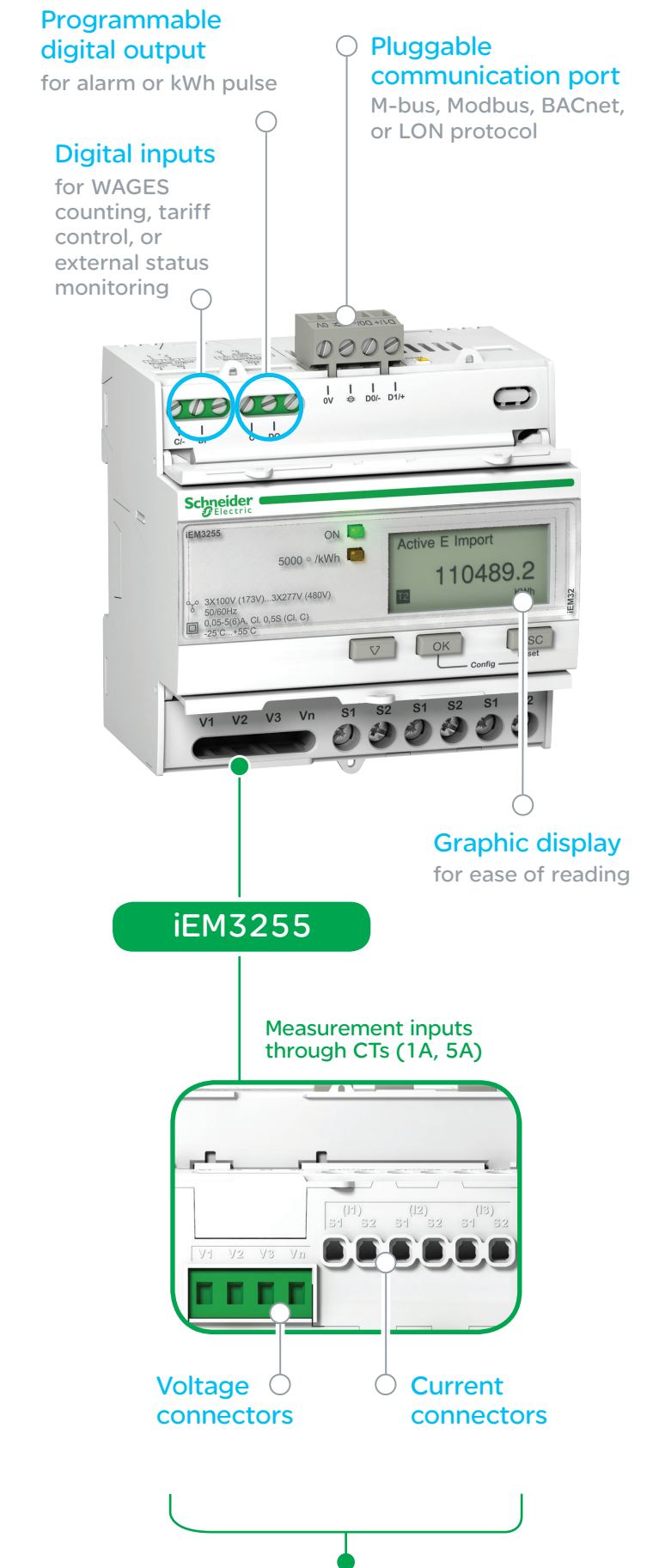
- > Use the meter as a pulse counter for any energy meter with a pulse output (WAGES collection)
- > Manage double-source applications (e.g., sources from grid and local generator and fuel generator)
- > Monitor circuit breaker status
- > Control up to 4 tariffs from external digital signals

Programmable digital outputs

- > Use to trip a light or sound an alarm
- > Configure as a pulse output

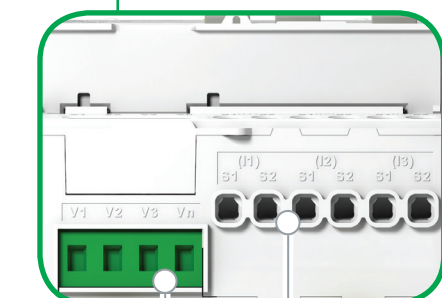
Smart alarm

- > kW overload alarm helps reduce billing penalties, optimise energy procurement and secure the network



iEM3255

Measurement inputs through CTs (1A, 5A)



Voltage connectors

Current connectors

All iEM3200 models connect through 1A or 5A current transformers

iEM3000 series function guide

Function Guide		iEM3000 series energy meters							
		iEM3100 iEM3200 iEM3300	iEM3110 iEM3210 iEM3310	iEM3115 iEM3215 iEM3315	iEM3135 iEM3235 iEM3335	iEM3150 iEM3250 iEM3350	iEM3155 iEM3255 iEM3355	iEM3165 iEM3265 iEM3365	iEM3175 iEM3275 iEM3375
Self powered		■	■	■	■	■	■	■	
Width (18mm module)		5/5/7	5/5/7	5/5	5/5/7	5/5/7	5/5/7	5/5/7	
Direct measurement (up to)		63A/-/125A	63A/-/125A	63A/-	63A/-/125A	63A/-/125A	63A/-/125A	63A/-/125A	
Measurement input through CTs (1A, 5A)		- /■/-	- /■/-	- /■	- /■/-	- /■/-	- /■/-	- /■/-	
Measurement input through VTs				- /■/-	- /■/-	- /■/-	- /■/-	- /■/-	
Active Energy measurements class		1/0.5S/1	1/0.5S/1	1/0.5S	1/0.5S/1	1/0.5S/1	1/0.5S/1	1/0.5S/1	
Four Quadrant Energy measurement					■		■	■	
Electrical parameter measurements (I, V, P, ...)					■	■	■	■	
Multi-tariff (internal clock)				4	4	4	4	4	
Multi-tariff (external control)				4	2	2	2	2	
Measurement display (no. of line)		3	3	3	3	3	3	3	
Digital inputs	Programmable (Tariff control or WAGES input)				1	1	1	1	
	Tariff control only			2					
Digital outputs	Programmable (Kwh pulse or KW overload alarm)				1	1	1		
	Kwh pulse only		1						
Communication protocols	M-bus				■				
	Modbus					■			
	BACnet						■		
	Lon							■	
MID (legal metrology certification)		■	■	■	■	■	■		
Ordering references	A9MEM3100	A9MEM3110	A9MEM3115	A9MEM3135	A9MEM3150	A9MEM3155	A9MEM3165	A9MEM3175	
	A9MEM3200	A9MEM3210	A9MEM3215	A9MEM3235	A9MEM3250	A9MEM3255	A9MEM3265	A9MEM3275	
	A9MEM3300	A9MEM3310	A9MEM3315	A9MEM3335	A9MEM3350	A9MEM3355	A9MEM3365	A9MEM3375	

How to read table: If a cell contains a single value, that value applies to all meter models identified in the header cell(s). For cells with multiple values, the values correspond from left to right with the meter models listed from top to bottom for each associated header cell. For example, a cell with "A / B / C" means A for iEM31xx models, B for iEM32xx models, and C for iEM33xx models

iEM3000 series energy meters are 100% compatible with the Acti 9 system

Smart Link



iEM3000 series energy meters are fully compatible with the Acti 9 modular system, gathering device status and energy consumption data so that your customers can effectively manage the behaviour of their electrical distribution system.

Make the most of your energySM

Schneider Electric Ltd

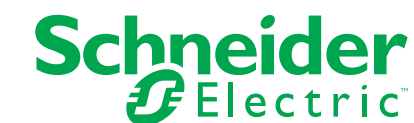
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As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.

SE8691 JUL 2014



Energy metering integration made simple

➤ Energy Meter iEM3000 series



The efficiency you deserve

