

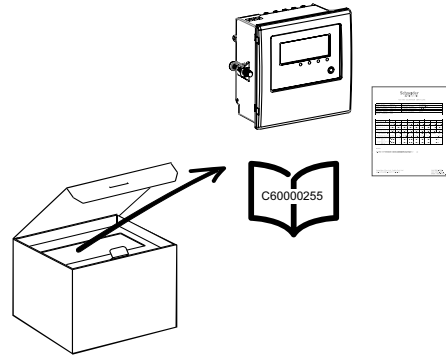
# EasyLogic™ DM1000 / DM3000 Series Digital Panel Meter



C60000255-08



The EasyLogic™ DM1000 series (1-ph V A F) / DM3000 series (3-ph V A) digital panel meters offer five different configurations. To download installation guide and other documentation, go to [www.se.com](http://www.se.com), select your country/region and search for your meter model (e.g., DM3210).



Commercial reference	Model	Accuracy	Voltage	Current	Frequency	CE/UKCA	Green Premium	Auxillary supply (Control Power)
METSEDM1110 A+ / 30002961 B+	DM1110	CL 0.5	—	1-ph	—	✓	✓	AC: 48 - 250 V L-N ± 10 % , Burden: Max 3 VA at 230 Vac L-N DC: 48 - 250 V ± 10 % , Max 1 W at 230Vdc Frequency: 50 / 60 ± 5 % Hz
METSEDM1210 A+ / 30002962 B+	DM1210	CL 0.5	1-ph	—	—	✓	✓	
METSEDM1310 A+ / 30002963 B+	DM1310	CL 0.2	—	—	✓	✓	✓	
METSEDM3110 A+ / 30002964 B+	DM3110	CL 0.5	—	3-ph	—	✓	✓	
METSEDM3210 A+ / 30002965 B+	DM3210	CL 0.5	3-ph	—	—	✓	✓	AC: 90 - 277 V, Burden: Max 5 VA at 240 Vac L-N, Frequency: 50 ± 5 % Hz
30002365 C+	DM1110	CL 1.0	—	1-ph	—	—	—	
30002366 C+	DM1210	CL 1.0	1-ph	—	—	—	—	
30002367 C+	DM1310	CL 0.2	—	—	✓	—	—	
30002385 C+	DM3110	CL 1.0	—	3-ph	—	—	—	
30002386 C+	DM3210	CL 1.0	3-ph	—	—	—	—	
30002459 C+	DM1110	CL 0.5	—	1-ph	—	—	—	
30002460 C+	DM1210	CL 0.5	1-ph	—	—	—	—	
30002461 C+	DM3110	CL 0.5	—	3-ph	—	—	—	
30002462 C+	DM3210	CL 0.5	3-ph	—	—	—	—	

A+: Available in all countries, B+, C+: Available in india only.

## 1 Safety Precautions

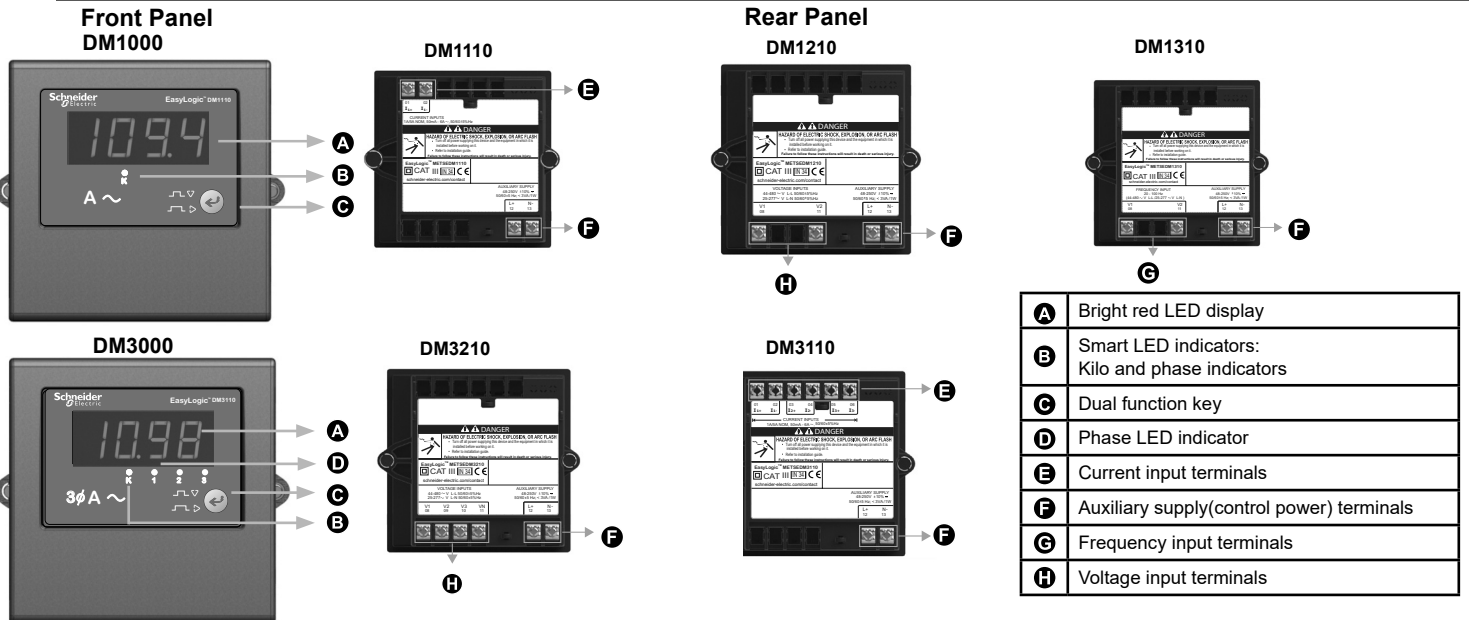
### ⚠️ DANGER

#### HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA or applicable local standards.
- Only qualified electrical workers should install this equipment. Such work should be performed only after reading this entire set of instructions.
- Turn off all power supplying this device before working on it.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- NEVER open circuit a CT; use the shorting block to short circuit the leads of the CT before removing the connection from the digital panel meter.
- Do not exceed the device's ratings for maximum limits.
- Do not use this device for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.
- Always use grounded external CTs for current inputs.

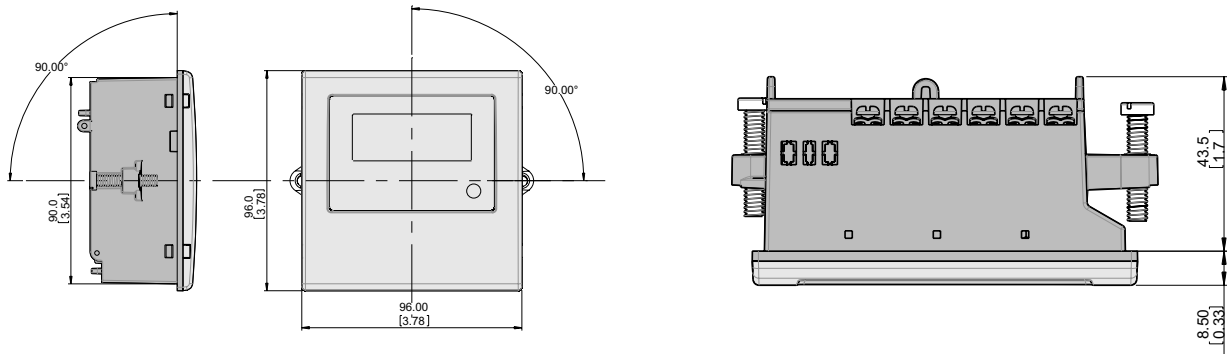
Failure to follow these instructions will result in death or serious injury.

## 2 Description



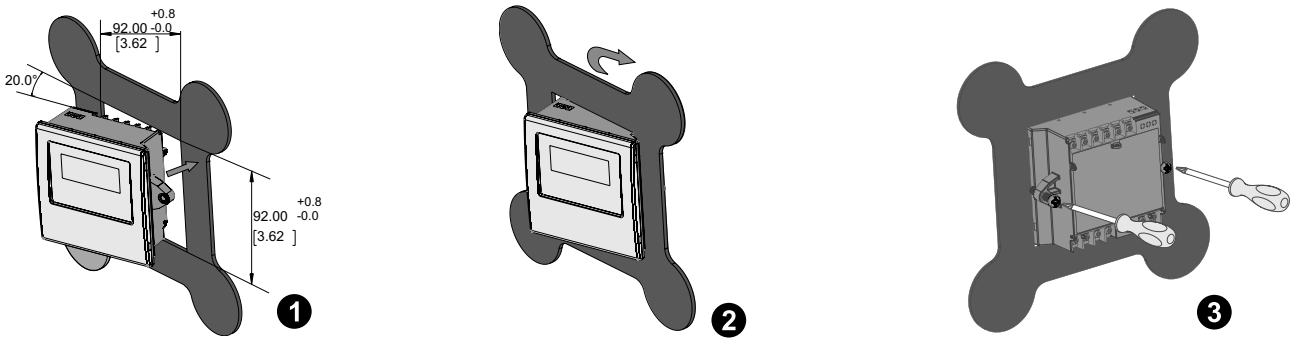
# 3 Dimensions

mm  
(in)



# 4 Mounting

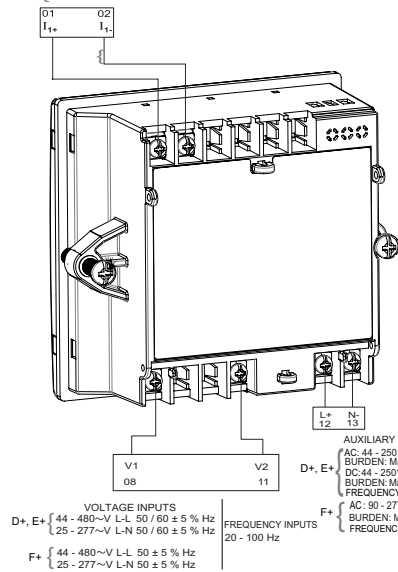
mm  
(in)



# 5 Wiring Diagrams

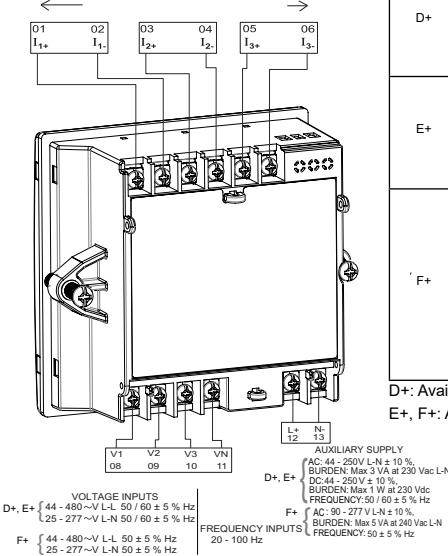
## DM1000 series digital panel meter

**CURRENT INPUTS**  
 D+, E+ [1 A / 5 A AC Nominal, 50 mA - 6 A, 50 / 60 ± 5 % Hz, <0.2 VA per phase  
 F+ [1 A / 5 A AC Nominal, 50 mA - 6 A, 50 ± 5 % Hz, <0.2 VA per phase



## DM3000 series digital panel meter

**CURRENT INPUTS**  
 D+, E+ [1 A / 5 A AC Nominal, 50 mA - 6 A, 50 / 60 ± 5 % Hz, <0.2 VA per phase  
 F+ [1 A / 5 A AC Nominal, 50 mA - 6 A, 50 ± 5 % Hz, <0.2 VA per phase

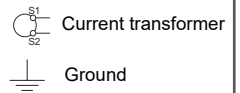


## Commercial reference

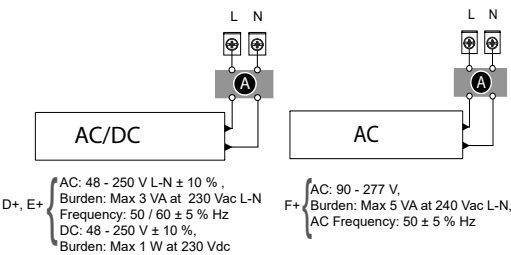
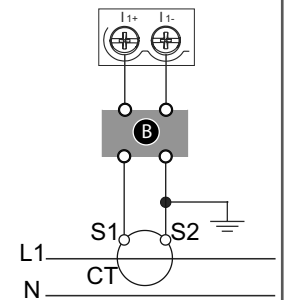
D+	METSEDM1110 METSEDM1210 METSEDM1310 METSEDM3110 METSEDM3210
E+	30002961 30002962 30002963 30002964 30002965
F+	30002365 30002366 30002367 30002385 30002386 30002459 30002460 30002461 30002462

D+, E+ : Available in all countries  
 E+, F+ : Available in india only.

- A** 0.25 A Fuse
- B** Shorting block
- C** Voltage disconnect switch



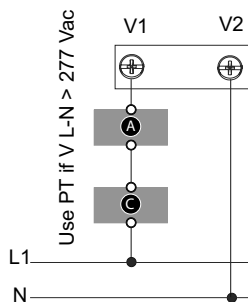
## DM1110 single-phase ammeter



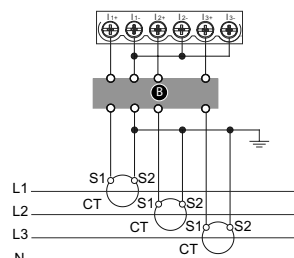
If using a control power transformer, fuse both primary and secondary sides of the transformer. The fuses / circuit breakers must be rated for the installation voltage and sized for the available fault current. Fuse for neutral terminal is required if the source neutral connection is not grounded.

**Note:** Clearly label the device's disconnect circuit mechanism and install it within easy reach of the operator.

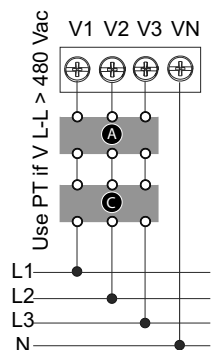
## DM1210 single-phase voltmeter DM1310 single-phase frequency meter



## DM3110 3-phase ammeter



## DM3210 3-phase voltmeter



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## Installation

See the label inside the rear panel door of the meter for wiring connections.

Connector	Wire size		Wire strip length		Torque		Screw driver type
Auxiliary Power <sup>1*</sup> , Voltage Inputs <sup>1*</sup> and Control outputs <sup>1*</sup>	18 - 12 AWG	0.82 - 3.31 mm <sup>2</sup>	0.28 in	7 mm	2.2 - 8.85 in-lb	0.25 - 1 N.m	PH 1 (Cross-slotted)
Current Inputs <sup>2*</sup>	18 - 12 AWG	0.82 - 3.31 mm <sup>2</sup>					
<sup>1*</sup> Wire ferrules recommended. Wire ferrule determines stripping length <sup>2*</sup> Current inputs (CTs) must have U or Ring terminal connections							

### Connecting Cable Requirements

	Insulation rating	Current rating
Voltage circuit	> 600 Vac	> 0.1 A
Current circuit	> 600 Vac	> 7.5 A

### Auxiliary and Voltage Terminal Fuse Recommendation

Symbol	Description	Fuse amperage	Voltage rating	Fuse type
	Fuse	250 mA	300 V AC/DC	Fast-acting type

# 7

## Dual Function Key

The EasyLogic™ digital panel meters have an intuitive dual function key . The dual function key performs three different operations.

Press dual function key for	To
Five seconds	Enter setup menu.
Two seconds (Long press)	Select the digit/value in the setup menu for editing.
Simple one touch (Short press)	Edit the digit/value in the setup menu.

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## Setup Menu

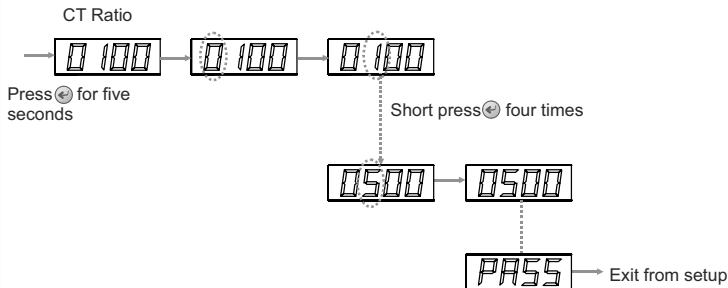
### To enter setup menu

- Press and hold for five seconds.
- For DM1110 / DM3110, the display flashes CTr and displays the default CTr value 0100.  
For DM1210 / DM3210, the display flashes PTR and displays the default PTR value 1.000.

**NOTE:** CTr is CT ratio and Ptr is PT ratio

### To edit CT Ratio in DM1110 1-phase / DM3110 3-phase ammeter

To set the CTr value to 2500/5 i.e., 0500 in DM1110 / DM3110 digital panel meter.

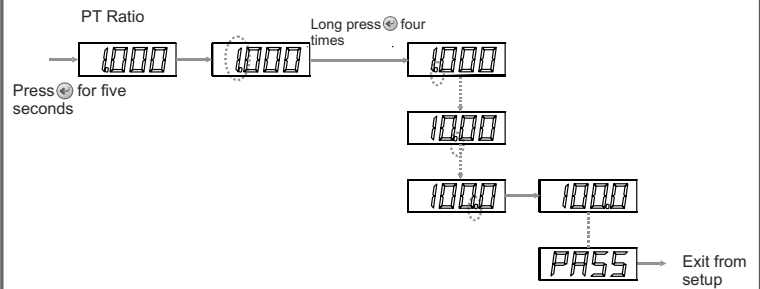


- Press and hold for five seconds. The display flashes CTr and displays the default CTr value 0100.
- Long press . The display shows 0100 with blinking 0.
- Long press . The display shows 0100 with blinking 1.
- Short press four times. The display shows 0500 with blinking 5.
- Long press to accept the new value.
- Short press . The display flashes PASS and exit the setup mode.

**NOTE:** The maximum CTr value you can set in DM1110 / DM3110 digital panel meter is 9999.

### To edit PT ratio in DM1210 1-phase / DM3210 3-phase voltmeter

To set the PTR value to 11 kV/110 i.e., 100 in DM1210 / DM3210 digital panel meter.



- Press and hold for five seconds. The display flashes PTR and displays the default PTR value 1.000.
- Long press . The display shows 1.000 with blinking 1.
- Long press for four times. The display shows 1.000 with blinking decimal point ".".
- Short press to shift the decimal point one place. The display shows 10.00 with blinking ".".
- Short press to shift the decimal point one more place. The display shows 100.0 with blinking ".".
- Long press to accept the new value.
- Short press . The display flashes PASS and exit the setup mode.

**NOTE:** The maximum PTR value you can set in the DM1210 / DM3210 digital panel meter is 9999.

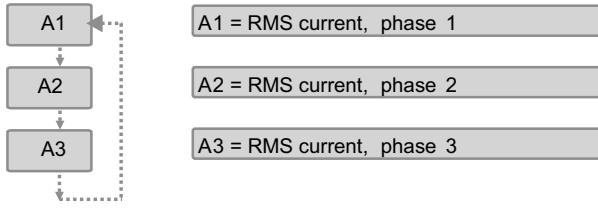
### NOTE:

- Key long press
- Key short press
- Digit/value selection for editing
- Digit/value 1 is selected for editing

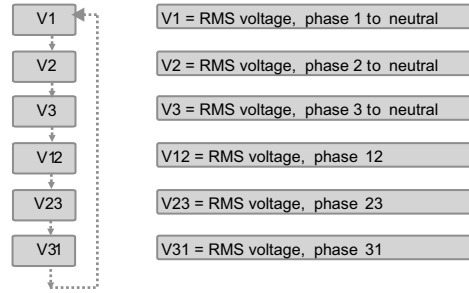
# 9

## Menu Hierarchy

### DM3110: Menu Hierarchy



### DM3210: Menu Hierarchy



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## Technical Specifications

<b>Commercial reference</b>		METSEDM1110 / 30002961 METSEDM1210 / 30002962 METSEDM1310 / 30002963 METSEDM3110 / 30002964 METSEDM3210 / 30002965	30002365 30002366 30002367 30002385 30002386 30002459 30002460 30002461 30002462
<b>Auxiliary supply</b> (Control Power)	DM1000/ DM3000	AC: 48 - 250 V L-N $\pm$ 10 % , Burden: Max 3 VA at 230 Vac L-N, DC: 48 - 250 V $\pm$ 10 % , Max 1 W at 230 Vdc Frequency: 50/60 $\pm$ 5 % Hz	AC: 90 - 277 V, Burden: Max 5 VA at 240, Vac L-N, Frequency: 50 $\pm$ 5 % Hz
<b>Input voltage</b>	DM1210 DM3210	44 - 480 Vac L-L, 50 / 60 $\pm$ 5 % Hz, < 0.2 VA per phase	44 - 480 Vac L-L, 50 $\pm$ 5 % Hz, < 0.2 VA per phase
		25 - 277 Vac L-N, 50 / 60 $\pm$ 5 % Hz	25 - 277 Vac L-N, 50 $\pm$ 5 % Hz
<b>Input current</b>	DM1110 DM3110	1 A / 5 A AC Nominal, 50 mA to 6 A AC, 50 / 60 $\pm$ 5 % Hz, < 0.2 VA per phase	1 A / 5 A AC Nominal, 50 mA to 6 A AC, < 0.2 VA per phase, 50 $\pm$ 5 % Hz
<b>Input frequency</b>	DM1310	20 - 100 Hz (44 - 480 Vac L-L / 25 - 277 Vac L-N), 50/60 $\pm$ 5% Hz	20 - 100 Hz (44 - 480 Vac L-L / 25 - 277 Vac L-N), 50 $\pm$ 5 % Hz
<b>Certifications</b>		CE and UKCA conforming to IEC 61010-1 Edition-3.1	Not Applicable
<b>Standards</b>		Harmonic current emissions: IEC 61000-3-2 <sup>3+</sup> Voltage fluctuations and flicker: IEC 61000-3-3 <sup>3+</sup>	Not Applicable
		Emission : CISPR 11; Class A Electrostatic Discharge : IEC 61000-4-2 <sup>3+</sup> Surge : IEC 61000-4-5 <sup>3+</sup> Electrical Fast Transients : IEC 61000-4-4 <sup>3+</sup> Radiated Susceptibility : IEC 61000-4-3 <sup>3+</sup> Conducted Susceptibility : IEC 61000-4-6 <sup>3+</sup> Power frequency magnetic field : IEC 61000-4-8 <sup>3+</sup> Immunity to voltage dips and interruptions : IEC 61000-4-11 <sup>3+</sup>	
<b>Sensing/measurement</b>		True RMS, one second update time	
<b>Accuracy</b>	DM1000/ DM3000	Voltage and current: $\pm$ 0.5 % of full scale reading for Class 0.5, $\pm$ 1.0 % of full scale reading for Class 1.0, Frequency: $\pm$ 0.2 % of the full scale reading	
<b>Display and resolution</b>		Four digits, seven segment LED display 0.1 % resolution	
<b>Safety</b>		CAT III - Measurement, Pollution degree 2 - Double insulation at user-accessible area	
<b>IP Degree of Protection</b>		Front Display - IP 51, Meter Body - IP 30	
<b>Environmental</b>		Operating temperature: -10 °C to 60 °C (14 °F to 140 °F) Storage temperature: -25 °C to 70 °C (-13 °F to 158 °F) Humidity: 5 % to 95 % non-condensing	
<b>Isolation</b>		4 kV for one minute	
<b>Altitude</b>		$\leq$ 2000 m	
<b>Product weight (approx)</b>		Maximum 240 gms (0.24 kg)	

**NOTE:** <sup>3+</sup> As per IEC 61326-1

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## Notices

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it.

Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material. A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

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- This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations.
- If this product is used in a manner not specified by the manufacturer, the protection provided by the product may be impaired.
- The safety of any system incorporating this product is the responsibility of the assembler/installer of the system.

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