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Energy Meter
MEM34

Electronic Energy Meter (kWh)

MEM - Counter type

Electrical characteristics

Operating characteristics	System	Suitable for 3P4W (MEM34) / 3P3W (MEM33) / 1P2W (MEM11)
	Voltage input	AC 415V (L-L) \pm 10% (other voltage upon request)
	Current input	5A or 1A AC
	Auxiliary supply	Self powered
	Starting current	0.2% of rated current
	Operating frequency	45 – 65Hz
	Operating power factor	0.5 lag – Unity – 0.8 lead
	Burden	0.2 VA per phase
Type of measurement		True RMS

Mechanical characteristics

Weight	400g (approx.)
IP degree of protection	Front: IP 51; Back: IP 40
Dimensions	Front: 96 x 96 mm (bezel size); Depth: 80mm Panel cut-out: 92 x 92 mm

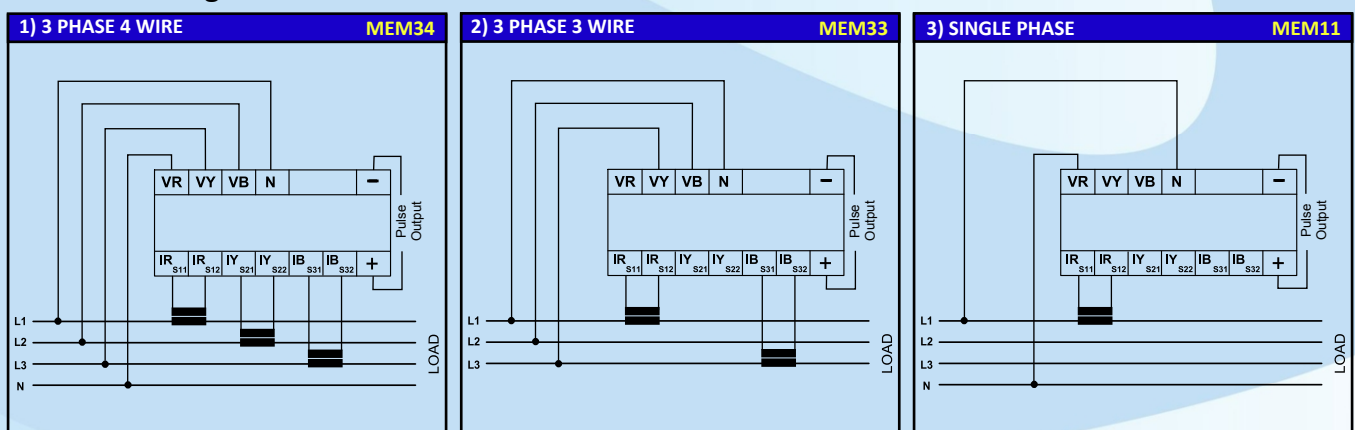
Environment conditions

Operating temperature	0 to 55°C
Storage temperature	- 10°C to 70°C
Humidity	Up to 95% RH

Features

Class 1 accuracy as per IEC 61036 (0.5 optional)	6-digits impulse counter display type
Self-powered auxiliary supply	Individual phase reversal & phase indication
CT ratio programmable via DIP switch (5A – 5000A)	Optically isolated open collector pulse output available for PLC, SCADA, DCS

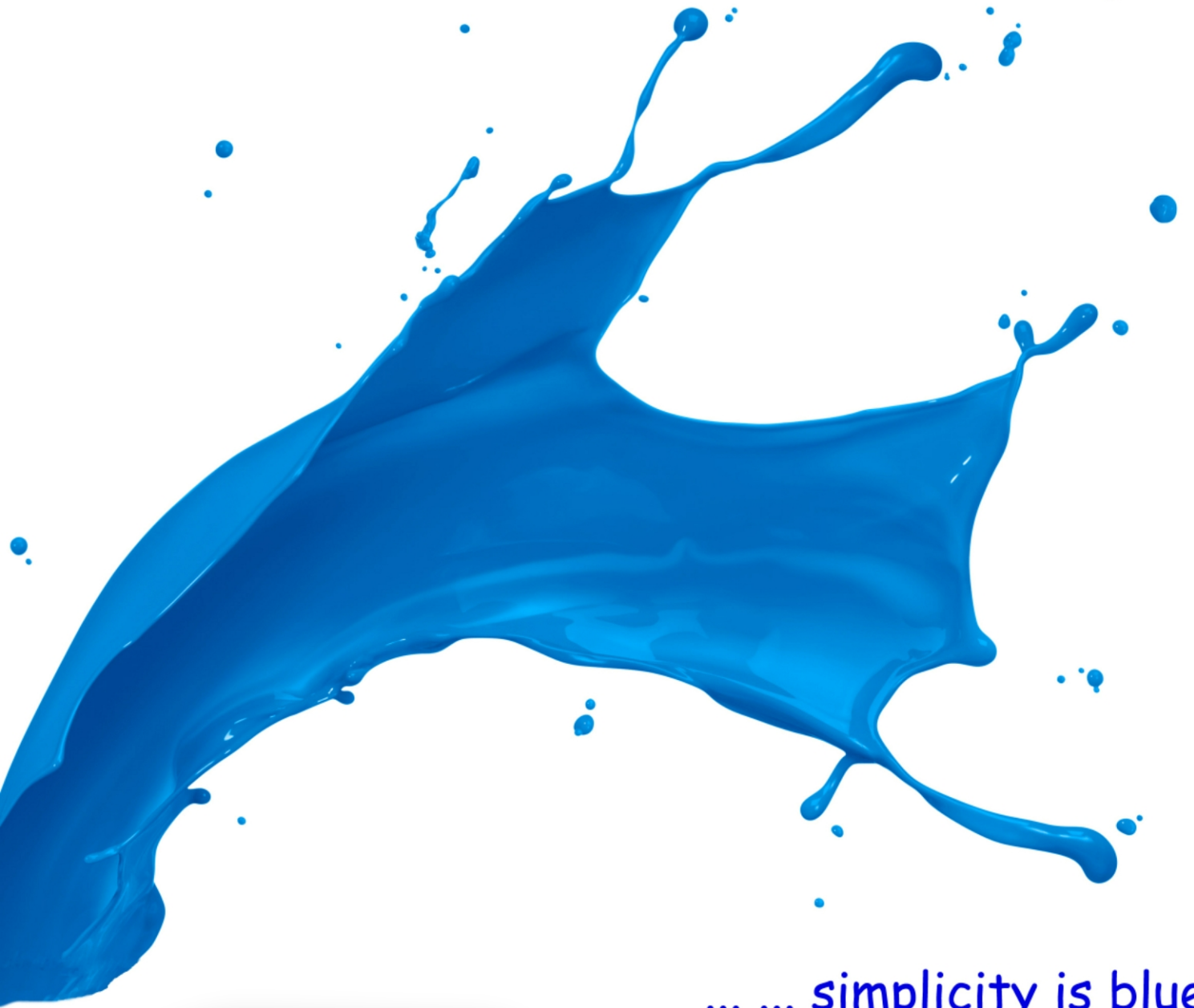
Connection diagram



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Product specifications and features are subject to change without prior notice.

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Energy Meter

MEM34L

Electronic Energy Meter (kWh)

MEM34L Series

Electrical characteristics

Operating characteristics	System	Suitable for 3P4W (MEM34L) / 3P3W (MEM33L) / 1P2W (MEM11L)
	Voltage input	AC 415V (L-L) \pm 10% (other voltage upon request)
	Current input	5A or 1A AC
	Auxiliary supply	Self powered
	Starting current	0.2% of rated current
	Operating frequency	45 – 65Hz
	Operating power factor	0.5 lag – Unity – 0.8 lead
	Burden	0.2 VA per phase
Type of measurement		True RMS

Mechanical characteristics

Weight	400g (approx.)
IP degree of protection	Front: IP 51; Back: IP 40
Dimensions	Front: 96 x 96 mm (bezel size); Depth: 46mm Panel cut-out: 92 x 92 mm

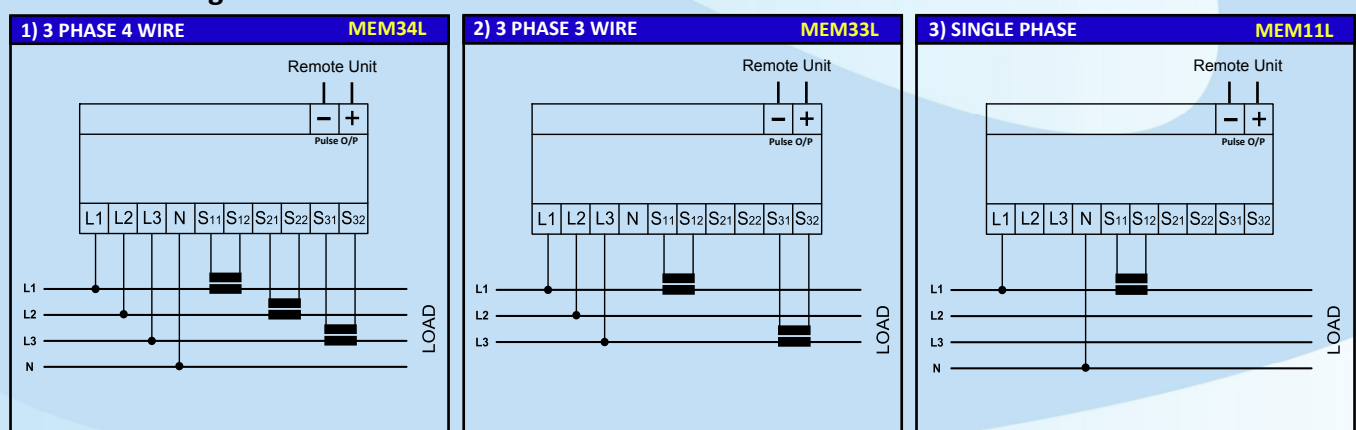
Environment conditions

Operating temperature	0 to 55°C
Storage temperature	- 10°C to 70°C
Humidity	Up to 95% RH

Features

Class 1 accuracy as per IEC 61036 (0.5 optional)	6-digits impulse counter display type
Self-powered auxiliary supply	Individual phase reversal & phase indication
CT ratio programmable (5A – 5000A)	Optically isolated open collector pulse output available for PLC, SCADA, DCS

Connection diagram



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Energy Meter
MEM34LS

Electronic Energy Meter (kWh)

MEM34LS Series

Electrical characteristics

Operating characteristics	System	Suitable for 3P4W (MEM34LS) / 3P3W (MEM33LS) / 1P2W (MEM11LS)
	Voltage input	80 - 500V AC (L-L)
	Current input	5A or 1A AC
	Auxiliary supply	AC 230V \pm 10% (other voltage upon request)
	Starting current	0.2% of rated current
	Operating frequency	45 – 65Hz
	Operating power factor	0.5 lag – Unity – 0.8 lead
	Burden	0.2 VA per phase
Type of measurement		True RMS

Mechanical characteristics

Weight	400g (approx.)
IP degree of protection	Front: IP 51; Back: IP 40
Dimensions	Front: 96 x 96 mm (bezel size); Depth: 46mm Panel cut-out: 92 x 92 mm

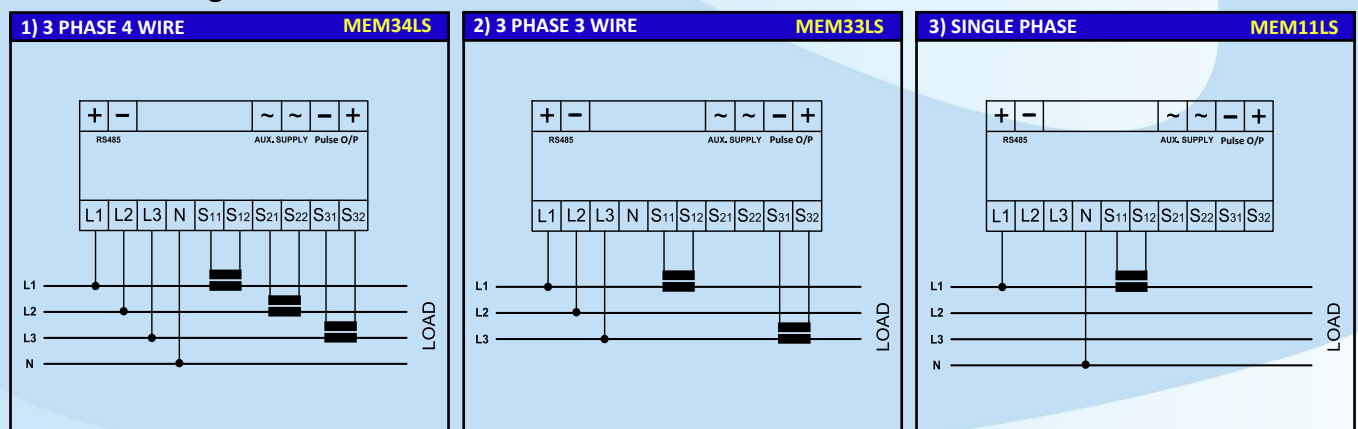
Environment conditions

Operating temperature	0 to 55°C
Storage temperature	- 10°C to 70°C
Humidity	Up to 95% RH

Features

Class 1 accuracy as per IEC 61036 (0.5 optional)	8-digits LCD display type
Password protection	Indication of individual phase & reversal
Intergrated with RS485 interface (Modbus RTU)	CT ratio programmable (5 - 5000A)
Optical isolated open collector pulse output	

Connection diagram



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Energy Meter

MEM DS Series

Dual Source Electronic Energy Meter (kWh)

MEM DS Series

Electrical characteristics

Operating characteristics	System	Suitable for 3P4W (MEM34DS) / 3P3W (MEM33DS) / 1P2W (MEM11DS)
	Voltage input	80 – 500V AC (L-L)
	Current input	5A or 1A AC
	Auxiliary supply	AC230V \pm 10% (other voltage upon request)
	Starting current	0.2% of rated current
	Operating frequency	45 – 65Hz
	Operating power factor	0.5 lag – Unity – 0.8 lead
	Burden	< 8VA
Type of measurement		True RMS

Mechanical characteristics

Weight	400g (approx.)
IP degree of protection	Front: IP 51; Back: IP 40
Dimensions	Front: 96 x 96 mm (bezel size); Depth: 46mm Panel cut-out: 92 x 92 mm

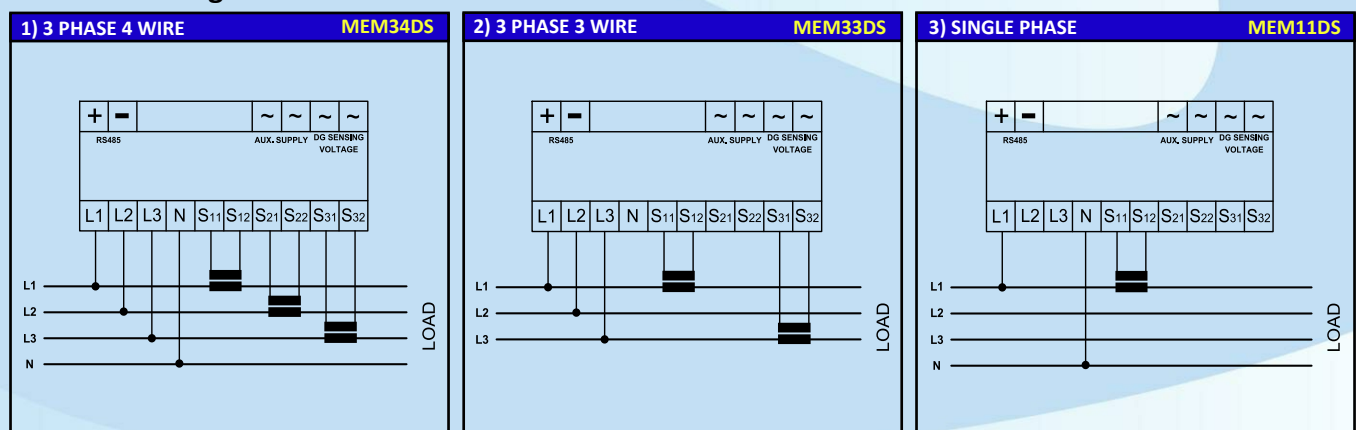
Environment conditions

Operating temperature	- 10°C to 55°C
Storage temperature	- 10°C to 70°C
Humidity	Up to 95% RH

Features

- Class 1 accuracy as per IEC 61036 (Class 0.5 optional)
- Dual Energy reading (Individual & Total)
- Self-powered auxiliary supply
- CT ratio programmable (5A – 5000A)
- DG Source Sensing input (230VAC)
- 8-digits LED Backlit Display
- RS-485 Modbus RTU protocol interface
- Individual phase reversal & phase indication
- Optically isolated open collector pulse output
- Password protection

Connection diagram



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