



- Direct connection 12 to 48VDC systems, up to 1600VDC with RH adapter (up to 5000VDC on request)
- Built-in test function
- All inputs and outputs fully isolated
- Triple-zone insulation monitoring and Supervision relay
- “Pathfinder” Indicates polarity of dominant earth fault
- Response time: 125-165ms
- Analogue output proportional to meter reading (F/L-version)
- Optional slave indicator
- Modbus RTU

Specifications

Auxiliary Supply:	Nom: 12-48VDC as standard (>9 - <60VDC, Fuse 2A)
Optional Voltage:	100-120, 200-240, 380-415 or 440-460VAC, 40-70Hz (Fuse 0,5A)
Supply tolerance:	± 20%
Power rating:	1,5VA
Contact rating:	AC: 100VA - 250V/2A max. DC: 50W - 100V/1A max.
Analogue Output:	Up to 20mA, max 500R (other on request) Up to 10V, min 100kohm
Temperature:	-20 to +70°C
Weight:	0.62kgs
Front protection:	IP21

INTELLIGENT SETTING ASSISTANCE

KCM169x has a built-in Assistance tool for setting/verification of the trip levels and the analogue output.

When either the **Warning** or **Alarm** potmeter on the rear is operated by user, the meter goes into **Assistance Mode** and meter reading and analogue output will reflect the potmeter setting.

How to set alarm levels:

Firstly adjust potmeter fully clockwise (see that meter goes to the top), then adjust potmeter down to required **Warning** or **Alarm** setpoint. In this mode, the Alarm or Warning LEDs (depending on which potmeter is adjusted) will flash quickly Red/Yellow.



Without any movement of potmeters, the meter will revert to normal Insulation Monitoring Mode after approximately 10 seconds.

How to test analogue output signal:

Adjust any trip level potmeter to activate Assistance Mode.
Example: On a 4-20mA output, adjust potmeter fully anti clockwise for 4mA and fully clockwise for 20mA.

The unit meets IEC60092-504 and the relevant environmental and EMC tests specified in IEC60068/60092 and IEC61000/60533 respectively, to comply with the requirements of the major Classification Societies.

Related information:

The KCM169x series are also available for panel mounting as KPM169x series.

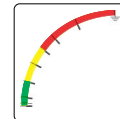
Description

The digitally controlled KCM169x monitors insulation level between a live non-grounded (IT) battery or live DC network and its protective earth.

Only **ONE** KCM169x can be connected to the same DC-system. An AC or DC (standard) auxiliary voltage is required for the unit. A green LED indicates AUX POWER on. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay). In this way false tripping during power up, caused by initial charging of network spread capacitance, is avoided.

The DIN96 slave instrument reads the insulation level directly in kΩ. The meter has reflection free glass. The ohmmeter and the triple-zone status LEDs at a glance gives the clear safety message:

- **ALARM** (red zone)
- **WARNING** (yellow zone)
- **HEALTHY** (green zone)



General

SEV MEASURING PRINCIPLE

Insulation is measured between the complete galvanically interconnected DC network and its protective earth. The signal flows to ground via the path of the insulation fault, the level of flow expresses the insulation resistance, the direction of flow expresses the fault polarity. The measuring accuracy is not influenced by any normal kind of load attached to the network. The detection time for an insulation fault is 125-165ms.

PATHFINDER / POLARITY FUNCTION

During a Warning or Alarm condition the Polarity LED indicates the polarity causing the trip:

- POSITIVE EARTH FAULT: Red LED lit**
- NEGATIVE EARTH FAULT: Blue LED lit**

RELAY OUTPUTS

The unit has non-latching C/O relay outputs for Warning (R1), Alarm (R2) and System Error (R3). The Alarm and error relays are fail to safety configured. A trip LED flashes when the trip level is passed, the relay trips after elapsed delay. The timer resets if the fault is removed during countdown. Trip levels and delays are settable on unit rear. Recommended trip level settings will depend on application and priority of safety hazards.

OUTPUT

All F and L versions have an isolated analogue output proportional to meter reading. And all is including modbus RTU communication. See individual modbus protocol datasheet.

SYSTEM SUPERVISION

If voltage of the monitored DC system not connected to the unit input or is too low, the NEG POLARITY LED will flash red, and relay 3 (System Error) will trip. If polarity of the input connection reversed, the NEG POLARITY LED will flash red and blue, and relay 3 will trip. Trip of relay 3 will inhibit operation of the warning and alarm relay and their respective trip LEDs.

SAFETY

When the Voltage Adapter is connected to the instrument, max output from RHx adapters is 60VDC.

Test Function

The built-in test button activates the self test function. A 20kohm resistor is then connected between the negative pole and PE as long as the button is pressed.

Relay and LED Operation

	POWER OFF All LED's are off. Relays shown de-energised.		
	POWER ON The GREEN LED (POWER) will lit when unit is powered in normal condition (Positive Polarity). Fail Safe relays R2 and R3 are activated. (*) NB! The BLUE LED (FAULT POLARITY) will also lit if the unit detect a minor earth fault.		
	WARNING POSITIVE The YELLOW LED (WARNING) flashes when the trip level is passed, the warning relay R1 trips after elapsed delay. Steady light after countdown.		
	WARNING NEGATIVE The BLUE LED (NEG POLARITY) will lit and the YELLOW LED (WARNING) flashes when the trip level is passed, the warning relay R1 trips after elapsed delay. Steady light after countdown.		
	ALARM POSITIVE The RED LED (WARNING) flashes when the trip level is passed, the warning relay R2 trips after elapsed delay. Steady light after countdown.		
	ALARM NEGATIVE The BLUE LED (NEG POLARITY) will lit and the RED LED (WARNING) flashes when the trip level is passed, the warning relay R2 trips after elapsed delay. Steady light after countdown.		
	FAULT STATUS / SYSTEM ERROR The NEG POLARITY LED (RED) flashes, this indicates missing measuring voltage (positive or negative) and status relay R3 will activate. In this mode the unit will not indicate any earth fault.		
	FAULT STATUS / SYSTEM ERROR The NEG POLARITY LED flashes and changes colour between BLUE and RED. This will indicate reserved polarity and status relay R3 will activate. In this mode the unit may indicate earth fault but alarm and warning relays will not be activated.		

The MEGACON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication.

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Description

KCM169C2x models for 9- 60VDC

These units are used for industrial, marine and offshore installations. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay).

Direct connection for 12, 24 or 48VDC systems.

Relay Operation

Scale range: 0-30kΩ - ∞ (>33kΩ)

	Warning	Alarm	System Error	Fail Safe	Latch
R1	✓				
R2		✓		✓	✓
R3			✓	✓	

Model	Latch	Output	Fail-safe	Adjustments	Trip level	Delay
KCM169C2	-	-	X	WARNING:	0-30kΩ	0-30secs
KCM169C2F	-	X	X	ALARM:	0-30kΩ	0,1-3secs
KCM169C2G	X	-	X			
KCM169C2GF	X	X	X			
KCM169C2H	-	-	-			
KCM169C2FH	-	X	-			
KCM169C2GH	X	-	-			
KCM169C2GFH	X	X	-			

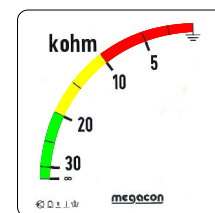
Output tables

Scale Ohm	0-10mA	0-20mA	4-20mA	0-10VDC	4-12-20mA	
					NEG.	POS.
0k	10,00 mA	20,00 mA	20,00 mA	10,00 Volt	4,00 mA	20,00 mA
2,5k	8,90 mA	17,80 mA	18,24 mA	8,90 Volt	4,88 mA	19,12 mA
5k	7,82 mA	15,64 mA	16,51 mA	7,82 Volt	5,75 mA	18,26 mA
10k	5,92 mA	11,84 mA	13,47 mA	5,92 Volt	7,27 mA	16,74 mA
15k	4,91 mA	9,83 mA	11,86 mA	4,91 Volt	8,07 mA	15,93 mA
20k	2,90 mA	5,80 mA	8,64 mA	2,90 Volt	9,68 mA	14,32 mA
25k	1,68 mA	3,35 mA	6,68 mA	1,68 Volt	10,66 mA	13,34 mA
30k	0,59 mA	1,19 mA	4,95 mA	0,59 Volt	11,53 mA	12,48 mA
33k	0,00 mA	0,00 mA	4,00 mA	0,00 Volt	12,00 mA	12,00 mA

Range

Coloured sectors show recommended areas of settings:

- Red - Indicates alarm trip zone
- Yellow - Indicates warning trip zone
- Green - Indicates healthy zone



Description

KCM169x models for 9- 60VDC

These units are used for industrial, marine and offshore installations. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay).

Direct connection for 12, 24 or 48VDC systems.

Relay Operation

Scale range: 0-100kΩ - ∞ (>100kΩ)

	Warning	Alarm	System Error	Fail Safe	Latch
R1	✓				
R2		✓		✓	✓
R3			✓	✓	

Model	Latch	Output	Fail-safe	Adjustments	Trip level	Delay
KCM169E	-	-	X	WARNING:	0-100kΩ	0-30secs
KCM169F	-	X	X	ALARM:	0-100kΩ	0,1-3secs
KCM169G	X	-	X			
KCM169GF	X	X	X			
KCM169EH	-	-	-			
KCM169FH	-	X	-			
KCM169GH	X	-	-			
KCM169GFH	X	X	-			

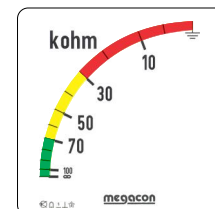
Output tables

Scale Ohm	0-10mA	0-20mA	4-20mA	0-10VDC	4-12-20mA	
					NEG.	POS.
0k	10,00 mA	20,00 mA	20,00 mA	10,00 Volt	4,00 mA	20,00 mA
10k	7,76 mA	15,51 mA	16,41 mA	7,76 Volt	5,80 mA	18,21 mA
20k	6,04 mA	12,08 mA	13,66 mA	6,04 Volt	7,17 mA	16,83 mA
30k	4,73 mA	9,45 mA	11,56 mA	4,73 Volt	8,22 mA	15,78 mA
40k	3,69 mA	7,39 mA	9,91 mA	3,69 Volt	9,05 mA	14,96 mA
50k	2,85 mA	5,70 mA	8,56 mA	2,85 Volt	9,72 mA	14,28 mA
70k	1,57 mA	3,14 mA	6,51 mA	1,57 Volt	10,75 mA	13,26 mA
100k	0,26 mA	0,53 mA	4,42 mA	0,26 Volt	11,79 mA	12,21 mA
110k	0,00 mA	0,00 mA	4,00 mA	0,00 Volt	12,00 mA	12,00 mA

Range

Coloured sectors show recommended areas of settings:

- Red - Indicates alarm trip zone
- Yellow - Indicates warning trip zone
- Green - Indicates healthy zone



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Description

KCM169x models for 60-200VDC

These units are used for industrial, marine and offshore installations. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay).

This unit use the voltage adapter RH2 for voltage from 60V to max.200VDC.



Output tables

Scale Ohm	0-10mA	0-20mA	4-20mA	0-10VDC	4-12-20mA	
					NEG.	POS.
10k	10,00 mA	20,00 mA	20,00 mA	10,00 Volt	4,00 mA	20,00 mA
100k	9,82 mA	19,64 mA	19,71 mA	9,82 Volt	4,15 mA	19,86 mA
200k	9,62 mA	19,24 mA	19,39 mA	9,62 Volt	4,31 mA	19,70 mA
300k	9,42 mA	18,84 mA	19,07 mA	9,42 Volt	4,47 mA	19,54 mA
500k	9,02 mA	18,04 mA	18,43 mA	9,02 Volt	4,79 mA	19,22 mA
700k	8,62 mA	17,24 mA	17,79 mA	8,62 Volt	5,11 mA	18,90 mA
1M	8,02 mA	16,04 mA	16,83 mA	8,02 Volt	5,59 mA	18,42 mA
2M	6,01 mA	12,03 mA	13,62 mA	6,01 Volt	7,19 mA	16,81 mA
3M	4,01 mA	8,01 mA	10,41 mA	4,01 Volt	8,80 mA	15,21 mA
4M	2,01 mA	4,01 mA	7,21 mA	2,01 Volt	10,40 mA	13,61 mA
5M	0,00 mA	0,00 mA	4,00 mA	0,00 Volt	12,00 mA	12,00 mA

Relay Operation

Scale range: <10kΩ-5MΩ

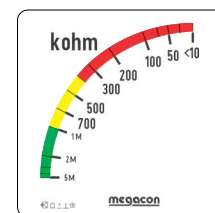
	Warning	Alarm	System Error	Fail Safe	Latch
R1	✓				
R2		✓		✓	✓
R3			✓	✓	

Model	Latch	Output	Fail-safe	Adjustments	Trip level	Delay
KCM169K2	-	-	X	WARNING:	10kΩ - 5MΩ	0-30secs
KCM169L2	-	X	X	ALARM:	10kΩ - 5MΩ	0,1-3secs
KCM169GK2	X	-	X			
KCM169GL2	X	X	X			
KCM169K2N	-	-	-			
KCM169L2N	-	X	-			
KCM169GK2N	X	-	-			
KCM169GL2N	X	X	-			

Range

Coloured sectors show recommended areas of settings:

- Red - Indicates alarm trip zone
- Yellow - Indicates warning trip zone
- Green - Indicates healthy zone



Description

KCM169x models for 200-400VDC

These units are used for industrial, marine and offshore installations. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay).

This unit use the voltage adapter RH4 for voltage systems from 200V to max. 400VDC.



Output tables

Scale Ohm	0-10mA	0-20mA	4-20mA	0-10VDC	4-12-20mA	
					NEG.	POS.
10k	10,00 mA	20,00 mA	20,00 mA	10,00 Volt	4,00 mA	20,00 mA
100k	9,82 mA	19,64 mA	19,71 mA	9,82 Volt	4,15 mA	19,86 mA
200k	9,62 mA	19,24 mA	19,39 mA	9,62 Volt	4,31 mA	19,70 mA
300k	9,42 mA	18,84 mA	19,07 mA	9,42 Volt	4,47 mA	19,54 mA
500k	9,02 mA	18,04 mA	18,43 mA	9,02 Volt	4,79 mA	19,22 mA
700k	8,62 mA	17,24 mA	17,79 mA	8,62 Volt	5,11 mA	18,90 mA
1M	8,02 mA	16,04 mA	16,83 mA	8,02 Volt	5,59 mA	18,42 mA
2M	6,01 mA	12,03 mA	13,62 mA	6,01 Volt	7,19 mA	16,81 mA
3M	4,01 mA	8,01 mA	10,41 mA	4,01 Volt	8,80 mA	15,21 mA
4M	2,01 mA	4,01 mA	7,21 mA	2,01 Volt	10,40 mA	13,61 mA
5M	0,00 mA	0,00 mA	4,00 mA	0,00 Volt	12,00 mA	12,00 mA

Relay Operation

Scale range: <10kΩ-5MΩ

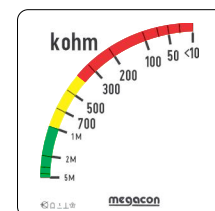
	Warning	Alarm	System Error	Fail Safe	Latch
R1	✓				
R2		✓		✓	✓
R3			✓	✓	

Model	Latch	Output	Fail-safe	Adjustments	Trip level	Delay
KCM169K4	-	-	X	WARNING:	10kΩ - 5MΩ	0-30secs
KCM169L4	-	X	X	ALARM:	10kΩ - 5MΩ	0,1-3secs
KCM169GK4	X	-	X			
KCM169GL4	X	X	X			
KCM169K4N	-	-	-			
KCM169L4N	-	X	-			
KCM169GK4N	X	-	-			
KCM169GL4N	X	X	-			

Range

Coloured sectors show recommended areas of settings:

- Red - Indicates alarm trip zone
- Yellow - Indicates warning trip zone
- Green - Indicates healthy zone



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Description

KCM169x models for 400-800VDC

These units are used for industrial, marine and offshore installations. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay).

This unit use the voltage adapter RH8 for voltage systems from 400V to max. 800VDC.



Output tables

Scale Ohm	0-10mA	0-20mA	4-20mA	0-10VDC	4-12-20mA	
					NEG.	POS.
10k	10,00 mA	20,00 mA	20,00 mA	10,00 Volt	4,00 mA	20,00 mA
100k	9,82 mA	19,64 mA	19,71 mA	9,82 Volt	4,15 mA	19,86 mA
200k	9,62 mA	19,24 mA	19,39 mA	9,62 Volt	4,31 mA	19,70 mA
300k	9,42 mA	18,84 mA	19,07 mA	9,42 Volt	4,47 mA	19,54 mA
500k	9,02 mA	18,04 mA	18,43 mA	9,02 Volt	4,79 mA	19,22 mA
700k	8,62 mA	17,24 mA	17,79 mA	8,62 Volt	5,11 mA	18,90 mA
1M	8,02 mA	16,04 mA	16,83 mA	8,02 Volt	5,59 mA	18,42 mA
2M	6,01 mA	12,03 mA	13,62 mA	6,01 Volt	7,19 mA	16,81 mA
3M	4,01 mA	8,01 mA	10,41 mA	4,01 Volt	8,80 mA	15,21 mA
4M	2,01 mA	4,01 mA	7,21 mA	2,01 Volt	10,40 mA	13,61 mA
5M	0,00 mA	0,00 mA	4,00 mA	0,00 Volt	12,00 mA	12,00 mA

Relay Operation

Scale range: <10kΩ-5MΩ

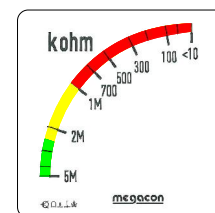
	Warning	Alarm	System Error	Fail Safe	Latch
R1	✓				
R2		✓		✓	✓
R3			✓	✓	

Model	Latch	Output	Fail-safe	Adjustments	Trip level	Delay
KCM169K8	-	-	X	WARNING:	10kΩ - 5MΩ	0-30secs
KCM169L8	-	X	X	ALARM:	10kΩ - 5MΩ	0,1-3secs
KCM169GK8	X	-	X			
KCM169GL8	X	X	X			
KCM169K8N	-	-	-			
KCM169L8N	-	X	-			
KCM169GK8N	X	-	-			
KCM169GL8N	X	X	-			

Range

Coloured sectors show recommended areas of settings:

- Indicates alarm trip zone
- Indicates warning trip zone
- Indicates healthy zone



Description

KCM169x models for 800-1200VDC

These units are used for industrial, marine and offshore installations. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay).

This unit use the voltage adapter RH12 for Voltage systems from 800V to max. 1200VDC.



Output tables

Scale Ohm	0-10mA	0-20mA	4-20mA	0-10VDC	4-12-20mA	
					NEG.	POS.
10k	10,00 mA	20,00 mA	20,00 mA	10,00 Volt	4,00 mA	20,00 mA
100k	9,82 mA	19,64 mA	19,71 mA	9,82 Volt	4,15 mA	19,86 mA
200k	9,62 mA	19,24 mA	19,39 mA	9,62 Volt	4,31 mA	19,70 mA
300k	9,42 mA	18,84 mA	19,07 mA	9,42 Volt	4,47 mA	19,54 mA
500k	9,02 mA	18,04 mA	18,43 mA	9,02 Volt	4,79 mA	19,22 mA
700k	8,62 mA	17,24 mA	17,79 mA	8,62 Volt	5,11 mA	18,90 mA
1M	8,02 mA	16,04 mA	16,83 mA	8,02 Volt	5,59 mA	18,42 mA
2M	6,01 mA	12,03 mA	13,62 mA	6,01 Volt	7,19 mA	16,81 mA
3M	4,01 mA	8,01 mA	10,41 mA	4,01 Volt	8,80 mA	15,21 mA
4M	2,01 mA	4,01 mA	7,21 mA	2,01 Volt	10,40 mA	13,61 mA
5M	0,00 mA	0,00 mA	4,00 mA	0,00 Volt	12,00 mA	12,00 mA

Relay Operation

Scale range: <10kΩ-5MΩ

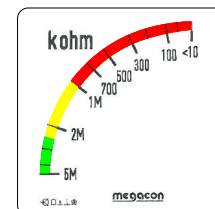
	Warning	Alarm	System Error	Fail Safe	Latch
R1	✓				
R2		✓		✓	✓
R3			✓	✓	

Model	Latch	Output	Fail-safe	Adjustments	Trip level	Delay
KCM169K12	-	-	X	WARNING:	10kΩ - 5MΩ	0-30secs
KCM169L12	-	X	X	ALARM:	10kΩ - 5MΩ	0,1-3secs
KCM169GK12	X	-	X			
KCM169GL12	X	X	X			
KCM169K12N	-	-	-			
KCM169L12N	-	X	-			
KCM169GK12N	X	-	-			
KCM169GL12N	X	X	-			

Range

Coloured sectors show recommended areas of settings:

- Indicates alarm trip zone
- Indicates warning trip zone
- Indicates healthy zone



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Description

KCM169x models for 1200-1600VDC

These units are used for industrial, marine and offshore installations. Start of monitoring function is delayed when auxiliary power is switched on (default 2 secs delay).

This unit use the voltage adapter RH16 for voltage from 1200V to max.1600VDC.



Output tables

Scale Ohm	0-10mA	0-20mA	4-20mA	0-10VDC	4-12-20mA	
					NEG.	POS.
10k	10,00 mA	20,00 mA	20,00 mA	10,00 Volt	4,00 mA	20,00 mA
100k	9,82 mA	19,64 mA	19,71 mA	9,82 Volt	4,15 mA	19,86 mA
200k	9,62 mA	19,24 mA	19,39 mA	9,62 Volt	4,31 mA	19,70 mA
300k	9,42 mA	18,84 mA	19,07 mA	9,42 Volt	4,47 mA	19,54 mA
500k	9,02 mA	18,04 mA	18,43 mA	9,02 Volt	4,79 mA	19,22 mA
700k	8,62 mA	17,24 mA	17,79 mA	8,62 Volt	5,11 mA	18,90 mA
1M	8,02 mA	16,04 mA	16,83 mA	8,02 Volt	5,59 mA	18,42 mA
2M	6,01 mA	12,03 mA	13,62 mA	6,01 Volt	7,19 mA	16,81 mA
3M	4,01 mA	8,01 mA	10,41 mA	4,01 Volt	8,80 mA	15,21 mA
4M	2,01 mA	4,01 mA	7,21 mA	2,01 Volt	10,40 mA	13,61 mA
5M	0,00 mA	0,00 mA	4,00 mA	0,00 Volt	12,00 mA	12,00 mA

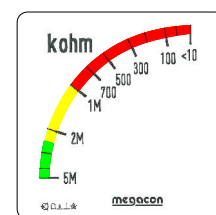
Relay Operation

Scale range: <10kΩ-5MΩ

	Warning	Alarm	System Error	Fail Safe	Latch
R1	✓				
R2		✓		✓	✓
R3			✓	✓	

Model	Latch	Output	Fail-safe	Adjustments	Trip level	Delay
KCM169K16	-	-	X	WARNING:	10kΩ - 5MΩ	0-30secs
KCM169L16	-	X	X	ALARM:	10kΩ - 5MΩ	0,1-3secs
KCM169GK16	X	-	X			
KCM169GL16	X	X	X			
KCM169K16N	-	-	-			
KCM169L16N	-	X	-			
KCM169GK16N	X	-	-			
KCM169GL16N	X	X	-			

Range



Coloured sectors show recommended areas of settings:
 - Indicates alarm trip zone
 - Indicates warning trip zone
 - Indicates healthy zone

High Voltage Adaptors RHx for KCM169Kx and KCM169Lx series

DC Voltage Adapter for use in conjunction with KCM169x series when the monitored DC voltage is higher than 60VDC. The adapter is a passive resistive/capacity unit and is potted in polyurethane for electrical safety. When the adapters is connected to the instrument the maximum voltage output is app. 60VDC.



RH2
60VDC to 200VDC



RH4
200VDC to 400VDC



RH8
400VDC to 800VDC

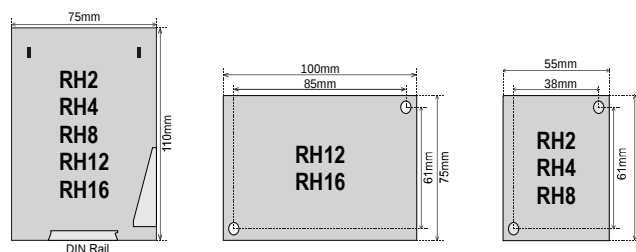


RH12
800VDC to 1200VDC



RH16
1200VDC to 1600VDC

Dimensions for RHx series

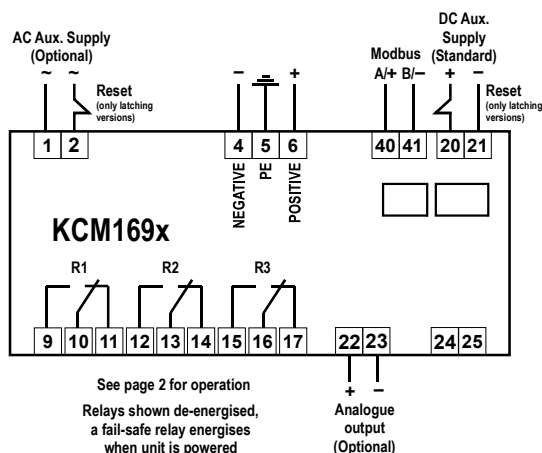


The MEGACon policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication.

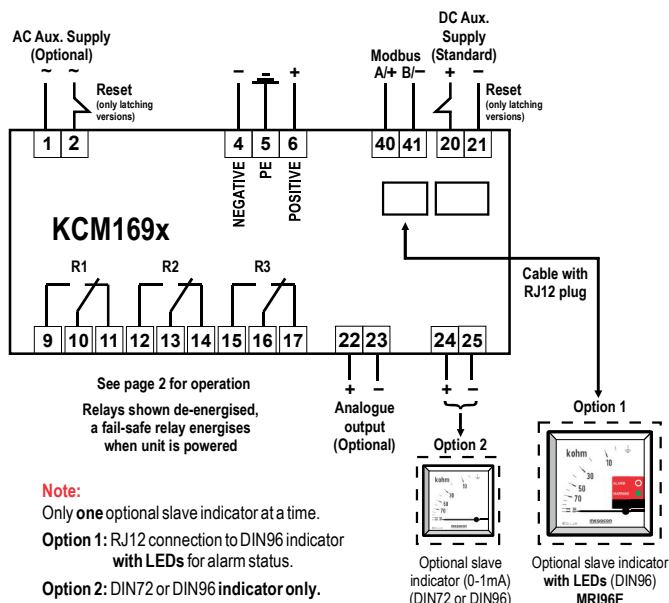


Connection

Connection Diagram without optional slave instrument



Connection Diagram with optional slave instrument



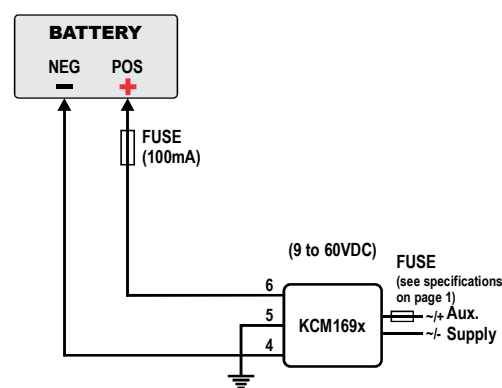
Analogue Output

The output signals are proportional to the meter reading. See page 3, 4, 5 & 6 for an overview of models and functions.

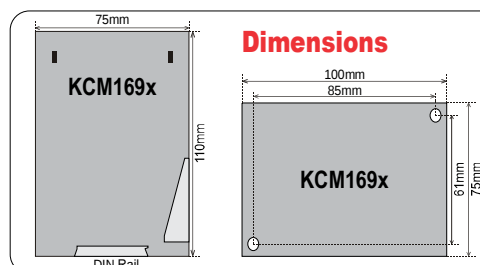
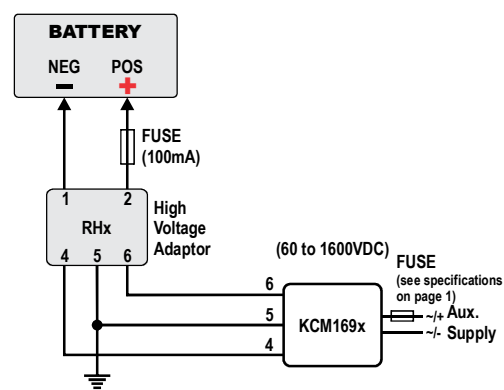
Add suffix from table below to type designation to specify output required:

O/P1	0 - 10mA	O/P6	N/A
O/P2	0 - 20mA	O/P7	N/A
O/P3	4 - 20mA	O/P8	0 - 10VDC
O/P4	4 - 12-20mA	O/P9	N/A
O/P5	N/A	O/P10	N/A

DIRECT INPUT <60VDC



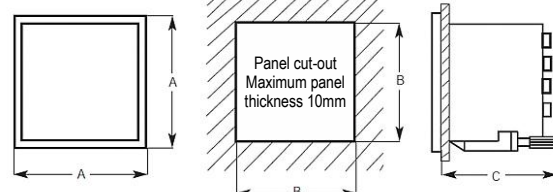
INPUT VIA RHx ADAPTOR



Dimensions

Dimensions for Slave instrument

	DIN 72	DIN96
A	72 x 72mm	96 x 96mm
B	68 x 68mm	92 x 92mm
C	64mm	64mm



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ORDERING INFORMATION

Type	: KCM169F
Aux. Supply	: 230VAC
Network Voltage	: 24VDC
Analogue O/P	: 4-20mA
Range	: 0-100kΩ

IS
range