



- Temperatur Guard for PT-100 element (RTD)
- 2, 3 or 4-wire PT 100 connection via mini MCR Converter
- Triple relay for more flexibility
- · A wide range of scaling available
- Very fast analogue output (<50mS), (F-version)

Specifications

Auxiliary Voltage:	100-120, 200-240, 380-415V, 440-460 or 480VAC 40-70Hz (Fuse 0,5A)		
Optional Auxiliary			
Voltage:	24, 48 or 110VDC (Fuse 2A)		
DC Input signal:	0-10, 0-20 or 4-20mA		
Scale Range:	Variation of ranges between: -150 °C to +850 °C		
	Can also be scaled in Fahrenheit: -238 °F to +1562 °F		
Contact rating:	AC: 100VA -250V/2A max. DC: 50W -100V/1A max.		
Supply tolerance:	± 10%		
Power rating:	1,5VA		
Adjustments	Trip level Delay		
Trip Warning:	0-100% of FSD 0-30 secs		
Trip Alarm:	0-100% of FSD 0-30 secs		
Analogue outputs:	Up to 20mA, max 500ohm		
F-Versions	Up to 10V, min 100kohm		
Temperature:	-20 to +70°C		
Weight:	0.6kgs		
Front protection:	IP52 (IP65 optional)		

The unit meets EN 61010-1 Cat. III, Pollution degree 2 and the relevant environmental and EMC tests specified in EN 61326-2-4 to comply with the requirements of the major Classification Societies.

Temperature Measuring Transducer Mini MCR Converter

See page 2 for connection and setting.



Application

The KPM30x is a digitally controlled temperature guard/controller for monitoring of temperature of machine bearings, windings etc.

The warning relay can be used to trip non-essential load or start a cooling fan and the alarm relay may be used to trip the total load.

KPM30x can be scaled for a wide variation of ranges between -150 and up to +850 Degrees Celsius or to Fahrenheit scale.

An AC or DC auxiliary voltage is required for the unit. A green LED indicates POWER on. Start of monitoring function is delayed when power is switched on (default 2 secs delay). In this way false tripping during power up is avoided.

The precision DIN96 moving coil meter reads the monitored parameter, and has low-reflection glass to ease reading at a distance.

The triple-zone status LEDs at a glance gives the clear safety message:

- -ALARM
- WARNING
- NORMAL

KPM30C is the standard version with no analogue output. The optional F-versions has an isolated analogue output signal proportional to meter deflection.

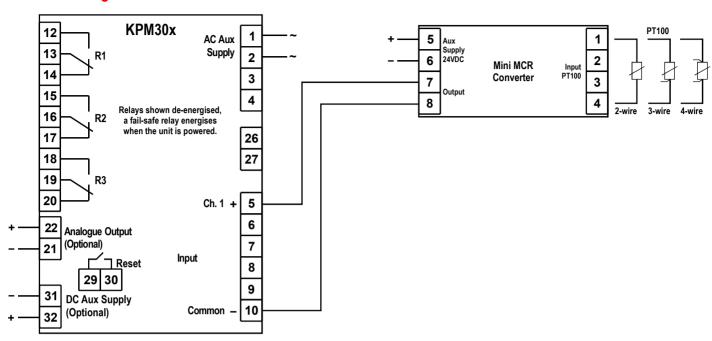
The units three C/O relay outputs and trip levels and trip delays are user settable on unit rear to suit most applications.

Relay trip lamps (Red LED) flash instantly (approx. 1 flash per second) when the trip level is passed, the relay trips after elapsed delay. The lamp changes state and the trip relay operates after the pre-set delay. If a trip condition ends during the delay interval, the timer will automatically reset.

As standard the unit is supplied for automatic reset. Manual reset (latching relays) is optional (All G-versions).



Connection diagram



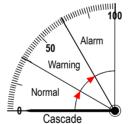
Relay Reset

Any latched relay is reset by linking terminals 29 and 30 or by interrupting the voltage input to terminal 1.

Relay	Operation	Relay Configuration: Cascade		
	Warning	Alarm	Fail Safe	Latch
R1				*/
R2				*/
R3				*/

Models	Latch	Output
KPM30C	-	-
KPM30CF	-	Χ
KPM30G*	Х	-
KPM30GF*	X	X

The relay operation is delayed in the arrow direction, the reset is instantaneous. Both trip levels can, independently, individually set over the scale range (0-100% FSD).



Customer setting PT 100 type must be sett by custmer.

	DIP \$1 1 2	Connection System
ON OFF		2-wire
ON	Ħ	2-wire
OFF		
OFF		3-wire
ON		4-wire
OFF	ШШ	



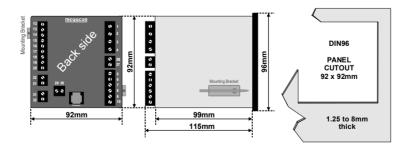
Analogue Output

All **F-versions** have an analogue output proportional to meter reading. The signal is specifically intended as input to a control system or for remote monitoring of the measured parameter. Other outputs available on request.

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	0-10V
O/P4	N/A	O/P9	0,2 - 10V
O/P5	N/A	O/P10	4.3 - 20mA

Dimensions



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

ORDERING INFORMATION

Product type : KPM30C Auxiliary supply : 230VAC Temp range : 0-300 Degrees C Output signal : 4-20mA

Example : KPM30C, 230VAC, 0-300 Degrees C



Norway Denmark United Kingdom