



- Temperatur Guard for a single PT-100 element (RTD)
- 2, 3 or 4-wire PT 100 connection via external converter
- Triple relay for more flexibility
- A wide range of scaling available
- One fast analogue output (<50mS), F-versions

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 to +850 Degrees °C or °F	
Contact rating:	AC: 100VA -250V/2A max. DC: 50W -100V/1A max.	
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:	IP54 (IP65 optional)	



2, 3 or 4-wire PT 100 connection (external converter)

Application

The KPM30x is a digitally controlled temperature guard/controller for monitoring of temperature f 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 Fahrenheit.

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.

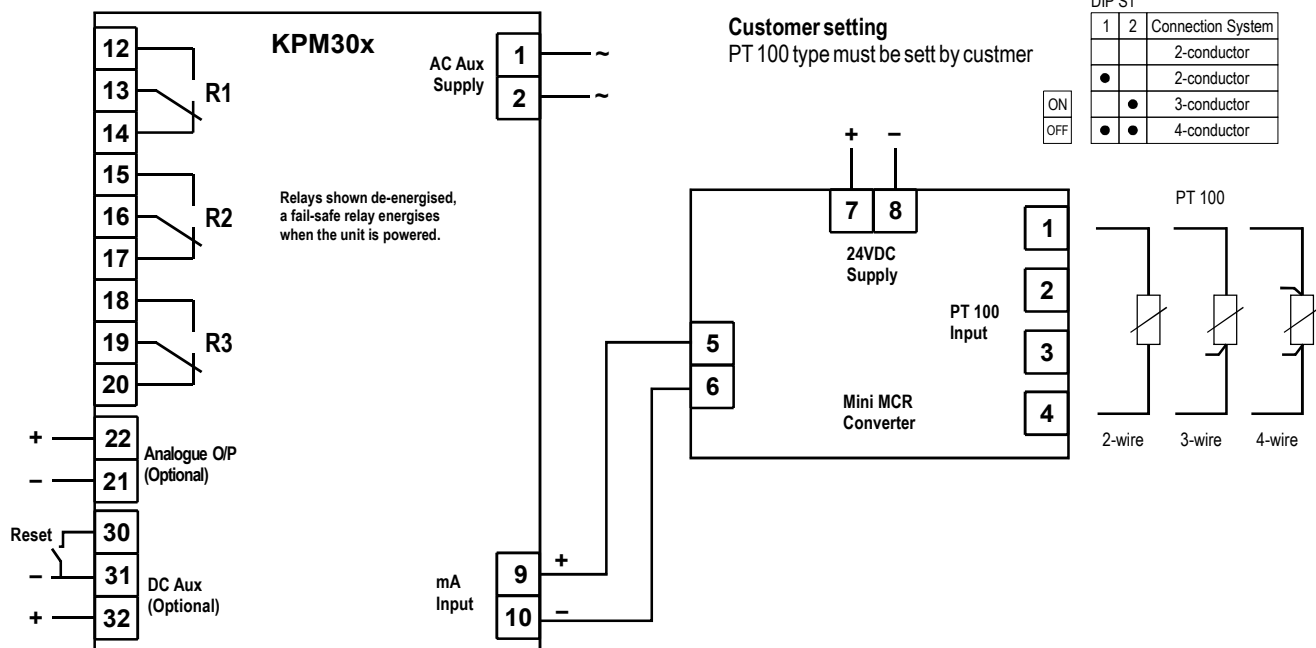
Relay trip lamps (Red LED) flash instantly (approx. 1 flash per second) when the trip level is passed, the relay trips after elapsed delay. The lamp changes state and the trip relay operates after the pre-set delay. If a trip condition ends during the delay interval, the timer will automatically reset.

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

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.



Connection diagram



Relay Reset

Any latched relay is reset by linking terminals 30 and 31 or by interrupting the voltage input to terminal 1.

Relay Operation

Relay Configuration: Cascade

	Warning	Alarm	Fail Safe	Latch
R1		✓	✓	*✓
R2	✓			*✓
R3	✓		✓	*✓

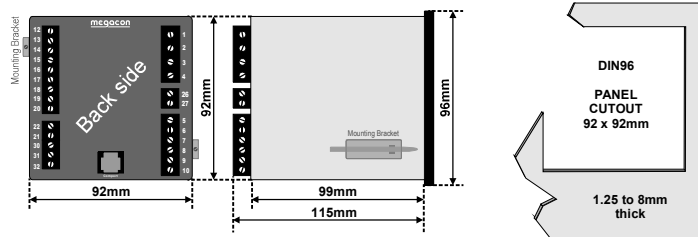
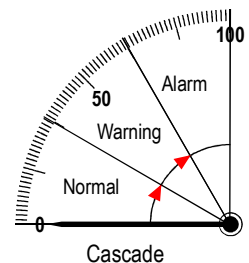
Analogue Output

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

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



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

ORDERING EXAMPLE:

Type: KPM30CF
 Aux. Supply: 200-240VAC
 Input signal: 0-20mA
 Scale: 0-150°C
 Analogue O/P: (O/P3) 4-20mA

IS
range