

PRODUCTION

Temperature monitoring relays



STEP800R

Temperature monitoring relays are designed to monitor the temperature of various components in a power system. They are used to detect overheating and prevent damage to equipment. The relays are typically installed in a control room or a central monitoring station. They provide real-time data on the temperature of the monitored components and can trigger alarms or shutdowns if the temperature exceeds a set point.

The relays are designed to be easy to install and use. They have a simple front panel with a few buttons and a display. They are also very reliable and have a long life span. They are a cost-effective way to monitor the temperature of your power system and protect your investment.

The relays are available in a range of models to suit different applications. They can be configured to monitor a wide range of temperatures and can be set to trigger alarms or shutdowns at different levels. They are a versatile and essential part of any power system.



STEP860R



STEP840R

Temperature monitoring relays

They are designed to monitor the temperature of various components in a power system. They are used to detect overheating and prevent damage to equipment. The relays are typically installed in a control room or a central monitoring station. They provide real-time data on the temperature of the monitored components and can trigger alarms or shutdowns if the temperature exceeds a set point.

They are easy to install and use.

They are very reliable and have a long life span.

They are available in a range of models to suit different applications.

They are a cost-effective way to monitor the temperature of your power system and protect your investment.



GHD, \$\$F' fY'Ungj' UFY' U' dfYVlgY' UbX' YZYVmj' Y' a YUbg' cZ XYHYVlb[' YI Wggj' Y' hYa dYfUhi fYg']b' Umi
Yei]da Ybhk \]W' \Ug'Y'YVf]W' fYg]g]UbW' hYa dYfUhi fY' dfcVYg']bgU' YX''

H.YgY' fY'Ungj' b]W' mVta d'Ya Ybh' h.Y' h.Yfa U' dfchV]cb' z bV]cb' cZYfYX' VmBDA , \$\$F' fY'Ungj' cb' Umi
a YX]i a ! 'cf' \] [\!dck YfYX' Y'YVf]W' a chcf'g" I g]b[' cb'mZ]l YX' cj Yf' hYa dYfUhi fY' W]ci hg' \Ug']a]fU]cbg'
a cghmXi Y' hc' h.Y' d'cg]h]cbg' cZ hYa dYfUhi fY' dfcVYg' k]h.]b' h.Y' a UW]bY' UbX' h.Y' h.Yfa U' fYg]g]j']micZ
]bg' 'Urcfg' Ufci bX' h.Y' d'fcVYg' " ' <ck Yj Yfz' V]bh]bi ci g' a cb]rcf]b[' cZ h.Y' hYa dYfUhi fY' Ybg' fYg' h.Uh
UWbcfa U' VYUf]b[' hYa dYfUhi fYg' V]b' VY']XYbh]Z]YX' UbX' h.Uh a UW]bYfmV]b' VY' dfchV]mX' U[U]bgi' cb[!
hYa 'cj Yf'cUXg' f]U_]b[']bhc' UW]i bh' h.Y' YZYV]cZ h.Y' V]c']b[' gng]Ya E'' 'ChYf' dfchV]m] Y' a YUg' fYg' Zcf'
'Uf[Y' a chcf'g' g' W' Ug' cj Yf'cUXg'z' i bVU'UbW' cf' gU' ' V]bX]h]cbg' V]b' VY']a d'Ya YbhYX' i g]b[' Ub' BDA , \$\$F'
fY'Uf'

H.Y' GHD, \$\$F' fUb[Y' Vta df]gYg' h' c' fY'Ungj' h.Y' GHD, *\$F' k]h' * hYa dYfUhi fY' a YUg' f]b[' WUbbY'g' UbX'
h.Y' GHD, (\$F' k]h' ('WUbbY'g' "gUW' WUbbY']g'a cb]rcfYX' VmUb]bXYdYbXYbhGHD, \$\$A D'a cXi 'Y''

9UW' a cXi 'Y' f'cf' WUbbY' E' \Ug

- %hYa dYfUhi fY' Yj Y' h' fYg' c' X
- %ci hdi h' fY' UmiUgg' V]UHYX' k]h' h']g]h' fYg' c' X' f]WUb[Ycj Yf' V]bh]U]k
- %Vta a cb' U' Ufa ' fY' UmiZcf' Vfc_ Yb' V]bXi V]c' fg' fUg' Ub' cdh]cbz' h']g'a UmiUgc' U' Ufa ' cb' cgg' cZ U' I]]Ufmdck Yf' hc' cbY' cf' a cfY' a cXi ' Yg'
- %X] []h' hYa dYfUhi fY' a YUg' fYa YbhX]gd' Um
- %hci W' g]V]Yb

9UW' hci W' g]V]Yb' U' ck' g' U' a cXi 'Y' hc' VY' d'fc[fUa a YXz' UbX' Zcf' i gYfg' hc' j]Yk' hYa dYfUhi fY' gYH
dc]bhg' UbX' fYU!]ja Y' hYa dYfUhi fY' a YUg' fYa Ybhg' Z'ca ' h.Y' Ugg' V]UHYX' d'fcVY''

H.Y' GHD, *\$F' UbX' GHD, (\$F' fY'Ungj' UFY' \ci gYX']b' g]UbXUFX' W]gY' g]nYg' F(' UbX' F' ' fYgdYV]m] Y'mi'
h.YfYzcfY' U' g]UbXUFX' % ' fUW' cZ %\$' i b]hg' k]XY' V]i 'X' UW]a a cXUHY' i d' hc' % (' hYa dYfUhi fY' WUbbY'g'
f'cbY' GHD, *\$F' UbX' h' c' GHD, (\$F' fY'Ungj' UbX' U' fUW' + i b]hg' k]XY' V]i 'X' \Uj' Y' %\$' WUbbY'g' f'cbY'
GHD, *\$F' UbX' cbY' GHD, (\$F' ' fYU!]ja Y' hYa dYfUhi fY' a YUg' fYa Ybhg' UbX' hYa dYfUhi fY' gYH dc]bhg'
a UmiVY' fYUX']bg]Ubhm] Z'ca ' h.Y']bXYdYbXYbh' g]V]Ybg''

H.Y' ZUWd' UHY' Vta df]gYg' *' fGHD, *\$F' E' cf' (' fGHD, (\$F' E' GHD, \$\$A D'a cXi ' Yg'z' YUW' k]h.

- 5' VUW!]h' hci W' g]V]Yb' k \]W' a UmiX]gd' Uma YUg' fYX' UbX' d'fc[fUa a YX' hYa dYfUhi fYg' f]b' 07' UbX']b' c\ a g' cZ h' Uha cXi ' Y''
- 5' di g' Vi h'cb' "A " hc' X]gd' Umi h.Y' V]bZ] [i fU]cb' a Ybi ' cf' fYh' fb' hc' h.Y' a YUg' fYa Ybh' g]V]Yb''
- 9UW' a cXi ' Y']g']bXYdYbXYbh' cZ h.Y' chYfg' UbX' a UmiVY' fYd' UWX']bX]]Xi U' mi]Z' fYei]fYX''

8Yj JW VbbYVcb

- H'a dYfUhi fY'a YUgj fYa Ybhj Zcf YUW' WUbbY' UFY' XYfj YX' Zfca 'U Dp\$!m dY' dfcVY' fbch'gj dd'JYXŁ
- 9UW' dfcVY'a i ghVY VbbYVX'hc h'Y'XYj JW'k Jh'g jHUV'Y h'fY!VfY'k jfY''H'jg'k j''Vta dYbgUHY' Zcf' h'Y'k jfY'fYg]ghUWZi d'hc' ((\$i "
- 9UW' dfcVY']g' UggcV]UHYX' k Jh'cbY' U'Ufa 'cf' hf'd' h'fYg'c'X"
- 9UW' h'fYg'c'X']g']b_YX'hc' cbY'ci hdi h'fY'Umik Jh' U'WUob[Ycj Yf' VzbhUW'
- CbY'ci hdi h'dYfa UbYbhnia cb]h'cf'g' h'Y' Vzbh]bi]hmicZ h'Y' VbbYVcbg' VYhk YYb' h'Y' dfcVY' UbX' h'Y' GFD' fY'Um' h'jg'k j''XYHVM'cbY'cf'a cfY'Vfc_Yb'k jfYg'z'cf' U'g'cfh'V]fW]h'VYhk YYb' h'Y' h'k'c' YbXg' cZ h'Y' dfcVY"

6Y\Uj]ci f'Xi f]b['U'Zi 'h

• : Ui 'hUf]g]b['Zfca 'cj Yf!\YU]b[
 K \Yb' U' h'a dYfUhi fY' h'fYg'c'X']g' fYUWYX' cb' U' WUbbY'ž h'Y' UggcV]UHYX' fY'Um'f'k' j''UM]j UHY' UbX' fYa U]b'UM]j Y' i bh' h'Y' h'a dYfUhi fY'Xfcdg" h'Y' gMYyb' Zcf' h'Y' UZZYVWX' WUbbY'k j''X]gd'UmU'a YggU[Y' f'897@f' Vm'XYZU' h'" h'Y']bX]W]h'cf'"][\h']b_YX'hc' h'Y' WUbbY'k j''"][\hi d'ž Vi h'k j''bch'i fb'cZZ Yj Yb' k \Yb' h'Y' ZU' h'\Ug'WUfYX/]h'a i gh'VY' fYgYhi g]b['h'Y'a Ybi 'cdh]cb''7@' 5@A ""

• 7cbbYVcb ZU' h'fk]h'ci h'Ui |]]Ufmdck Yf'a cb]h'cf]b['ž bV]cbŁ
 CbY'ci hdi h'fY'Um'f'k' \]W']g'Vta a cb'hc' U'' a cXi 'Yg'z'k j''UM]j UHY']bg'Ubh'm]ZU'VbbYVcb ZU' h'c'WVfg'" 5h'h'Y'gJa Y'h'a Yž h'Y']bX]W]h'cf'"][\h'Zcf'ci hdi h'k' j''Ugc'"][\hi d'" z h'Y' ZU' h'WUf'g'z' h'Y'"][\h'k j''ZUg'" h'jg'"][\h'g'fYgYhi g]b['h'Y'a Ybi 'cdh]cb''7@' 5@A ""

• 7cbbYVcb ZU' h'fk]h'Ui |]]Ufmdck Yf'a cb]h'cf]b['ž bV]cbŁ
 CbY'ci hdi h'fY'Um'f'k' \]W']g' Vta a cb'hc' U'' a cXi 'Yg'z'k j''UM]j UHY' Ug'g'cb' Ug'Ui |]]Ufmdck Yf']g' gj dd'JYX'hc' h'Y' GFD, \$\$F' fY'Um' h'jg'ci hdi h'fY'Umik j''hf'd' Ug'g'cb' Ug' U' VbbYVcb ZU' h'c'WVfg'" h'Y']bX]W]h'cf'"][\h']b_YX'hc' h'jg'ci hdi h'k j''VY']h'k \Yb' h'Y'fY']g'bc' ZU' h'UbX' i b']h'k \Yb' U' VbbYVcb ZU' h'c'WVfg'" h'jg'ci hdi h'fY'Umik j''Ugc' hf'd']ZU' |]]Ufmdck Yf']g'cg'h'c'cbY'cf'a cfY'a cXi 'Yg'" h'ch'Yf'k cfXg'z' VbbYVcb ZU' h'g'cf'cg'g'cZdck Yf'UFY'Vch']b_YX'hc' h'Y'gJa Y'ci hdi h'

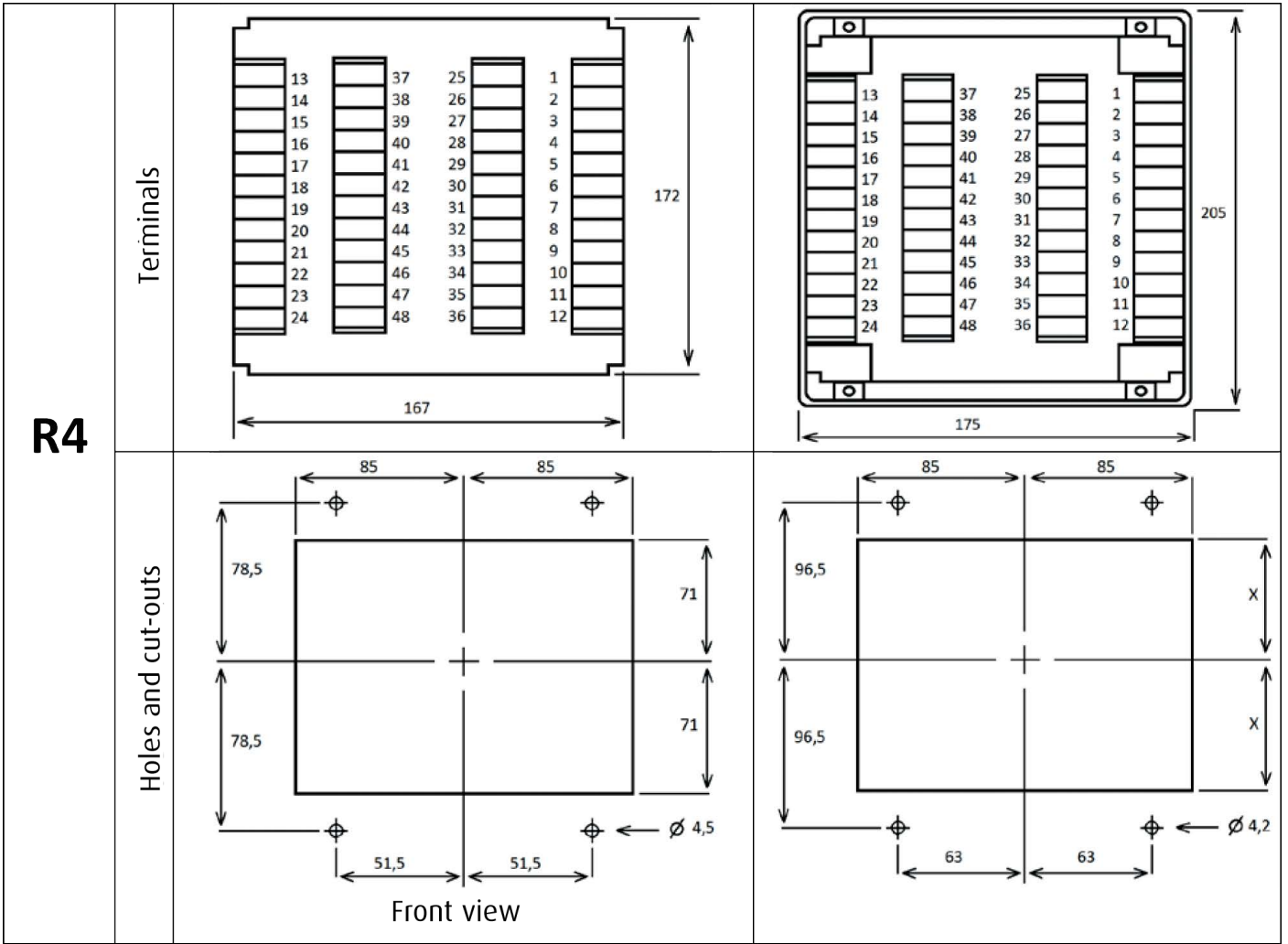
I g]b['h'Y'XYj JW

- h'Y' h'a dYfUhi fY'a YUgj fYX'VmYUW' dfcVY'a Um'VY'fYUX'X]fYV]mZfca 'h'Y'gMYyb'cZ h'Uha cXi 'Y'"
- H'c'j]Yk 'h'Y' dfc[fLa a YX' h'a dYfUhi fY' h'fYg'c'X'ž cdYb' h'Y'a Ybi 'F958'7: ; ""

7<5F57H-F-GH7G

| | |
|---|---|
| Dfc[fUa a UV'Y'hYa dYfUhi fY'fUb[Y | -200° hc +850°C |
| 7ca dUHV'Y'hYa dYfUhi fY'dfcVYg | DfV\$S'd'Uhb[a 'fYg]g'ubW'hYa dYfUhi fY' dfcVYg(100Ω Uh0°C) |
| 5WVfUMh'cZ'hYa dYfUhi fY'h'fYg]c'Xg | ± 1"05°C |
| 8]gd'UmUWVfUMh | 1°C cf 0"1°C |
| A U[]a i a 'Xf]Zhik]h.]b'h.Y'Zc'ck]b['fUb[Yg <ul style="list-style-type: none"> • Ua V]Ybh'hYa dYfUhi fY'VYhk YYb -20° UbX +60°C • U[]']Ufmj c' hU[Y'VYhk YYb 80% UbX 110% cZbca]bU | ± 1"05°C ± 1"05°C |
| h'YfbU' hYa dYfUhi fY'fUb[Y'Zc'k \]W'Z' bV]cbU']m]g' [i Ufubh'YX | -20°C hc 60°C |
| <i a]X]hm | 5WVfX]b['hc' EN 60068-8-78 (93%F<, +40°C) |
| A U[]a i a 'k]fY'fYg]g'ubW'VYhk YYb'h.Y'dfcVY'UbX'h.Y' XYj]W'f!k]fY'VzbbYV]cbL | 440Ω |
| 5i l]']Ufmdck Yf'Vzbgj a dh]cb | <3W |
| 5i l]']Ufmdck Yf'g] dd'mj c' hU[Y | 20 - 270 V57/50/60Hz cf 20 - 300 V87 |
| FUhb['cZci hdi h'VzbbYV]cb]bi ci g'VffntL | 8A/250V57'fYg]ghj Y'cUX |
| 8]Y'Vf]V]k]h.g'ubX <ul style="list-style-type: none"> • VYhk YYb'U' VzbbYV]cb]bi h'Yfa]bUg'UbX'YUfh • VYhk YYb'dck Yf'g] dd'mh'Yfa]bUg'UbX'U'ch'Yf' h'Yfa]bUg | 2 kV 50Hz Zcf'1 min 2 kV 50Hz Zcf'1 min |
| Jc' hU[Y']a di 'gy'k]h.g'ubX <ul style="list-style-type: none"> • 8]ZYfYbh]U <ul style="list-style-type: none"> - cb'h.Y'dck Yf'g] dd'm]bdi h - cb'YUW'ci hdi h • 7ca a cb'a cXY <ul style="list-style-type: none"> - U' h'Yfa]bUg]hc[Yh'Yf'k]h' fYgdYV]cb]bi'YUfh - dfcVY']bdi h'V]fV]h'k "F'H'dck Yf'g] dd'm]fV]h | 1 kV dYU_ 1 kV dYU_ K Uj YZcfa 1"2/50μs UWVfX]b['hc' -97'255-5 5 kV dYU_ 5 kV dYU_ |
| G'Ybg]h]]m]hc' \] [\ 'Z'Yei YbVh'X]gh' fVubVWg | 2"5 UbX'1 kV - 1MHz UWVfX]b['hc' WUgg'III, g'ubXUFX' -97'255-4 annex E |
| 7Ugy' g]nY <ul style="list-style-type: none"> • STEP860R • STEP840R | R4 R3 |
| K]f]b['X]U[fUa <ul style="list-style-type: none"> • STEP860R • STEP840R | S42334 S42332 |
| K Y][\h <ul style="list-style-type: none"> • STEP860R • STEP840R | 4"5 kg 3"7 kg |
| 9YVfca U[bYh]VWz'a dUHV]]hm | 5WVfX]b['hc' EN 225-25 |
| h[fYgg]dfch'V]cb'Y] Y' | €4 |

| | | Projection mounting, rear-facing terminals | Flush mounting, rear-facing terminals |
|-------------|-------------------------|--|---|
| Connections | Connection by M4 screws | | |
| | | | <p>$x = 89$ for a panel of width ≤ 2</p> <p>$x = 90.5$ for a panel of width > 2</p> |
| R3 | Terminals | | |
| | Holes and cut-outs | | |



The specifications and drawings given are subject to change and are not binding unless confirmed by our specialists.



CEE Relays Ltd

87C Whitby Road, Slough, SL1 3DR (Registered Office)

Tel: +44 1753 576477 Fax: +44 1753 825661

Web: www.cceerelays.co.uk

