

**Ashridge Engineering Ltd**

**Series 852<sup>Plus</sup>**



## **T**ransformer **T**emperature **M**onitor

### **Specification**

#### **Inputs**

3 wire PT100, class B  
5 amp CT (0-1 to 0-10A user selectable)  
Fans & Pumps CT's or  
contact closure  
Contact rating: 5A  
(Breaking: 110VDC/0.4A)

#### **Environmental:**

Temperature range: 0-55 Deg C  
(Excursions to 60 Deg C)  
Damp Heat to IEC 68-2-30

#### **Power supply:**

Universal, 85-265Vac, 80-260Vdc  
Power consumption:<10VA

#### **Dimensions:**

220 (W) X 184 (H) X 104.5 (D)

#### **Fixing dimensions:**

198 (W) X 145 (H)

## **The 852Plus from Ashridge Engineering**

The 852Plus from Ashridge Engineering is more than just a winding temperature indicator, some of the new features include full monitoring of Fan and Pump running currents with 'deviation from normal' alarm relay output. **Full isolation is maintained between input and all outputs for maximum system integrity.**

**Additional Features include: 1 to 3 gradient selection, Optional Auto Cool mode, allowing Cooler exercising at timed intervals between 1 and 30 days**

- ✓ Probe & system condition monitoring & alarm
- ✓ SCADA ready Analogue & Digital outputs
- ✓ Continuously displays 'Hot Spot' corrected temperature
- ✓ Top oil temperature displayed by single key press
- ✓ CT current displayed by single key press
- ✓ Universal power supply
- ✓ 'Future proof' Flash upgradeable

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***National Grid Approval (Category 'A' Unrestricted as WTI)***

**Order codes:**

**852Plus-W (Wall mounted)**

**852Plus-P (DIN 144 Panel mounted)**

**852Plus-W-0-Q22a (Wall mounted without probe to National Grid specification for Quad Booster Over temperature protection)**

**852Plus-W-0-V32 (Wall mounted to National Grid specification for Winding Temperature Indicator with Auto cool facility)**

**M224329**

**Specification:**

**3 wire PT100 input:** +/- 1°C @ 20°C, PT100 input to Analogue output: +/- 2°C @ 20°C

**Analogue output:** 0-10, 0-20 & 4-20mA (User selectable). Maximum loop resistance 800Ω .

**CT input:** 0-5Amp, user selectable 1 -10 Amps, +/- 2% @ 20°C, (CT = 0.03VA, 1:1000) **Overload 75A for 3 secs Hot Spot Gradient to IEC 354**

**Relay outputs:** Watchdog and Cool Fail plus 4 off user adjustable for Pump, Fan, Alarm and Trip all with N/O or N/C volt free contacts (user selectable by links).

Relay rating: Contact life (for  $1.2 \times 10^5$  operations): 5A Non inductive (Breaking: 110Vdc/0.4A, for inductive de-rate using L/R=7msecs, i.e. approx 0.2A@125VDC).

**Environmental:** Operating temperature range: 0 to 55°C. **Damp Heat to IEC 68-2-30**

Wall mounted enclosure to IP65, Panel mounted enclosure to IP55. **Weight: 1.2Kg**

**Seismic to IEC 255-21-3 (Class 2)**

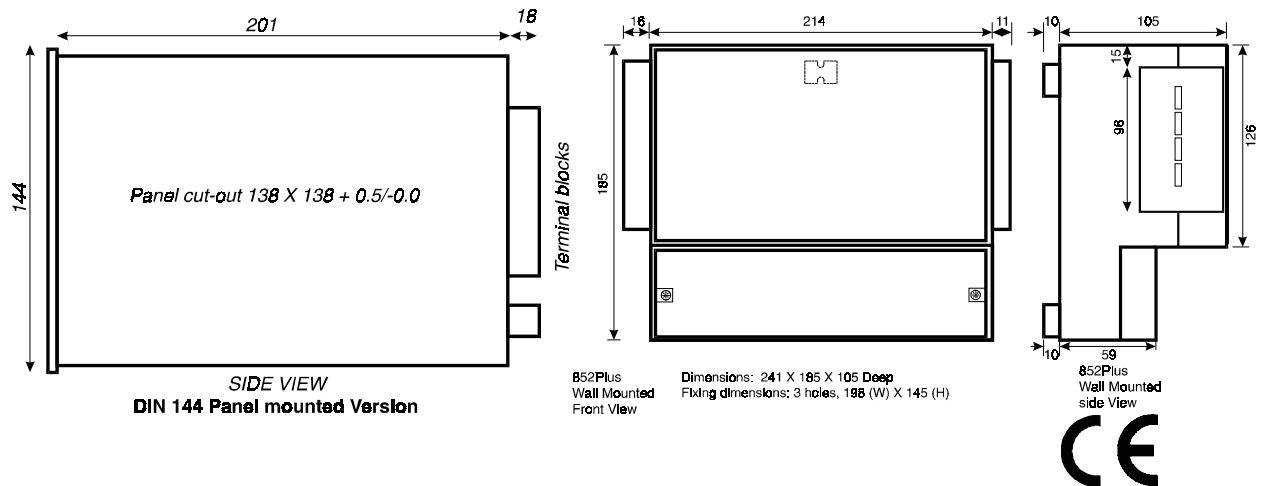
**Power supply: Universal input, 85-265 Volts ac, 80-260 Volts dc, power consumption less than 6VA.**

**EMC:** Meets the intent of Directive 89/336 and LVD 73/23/ECC

IEC255-5, EN55022, EN50081-2, EN55011, EN6100-4-2, EN6100-4-3, EN6100-4-4, EN6100-4-5, EN6100-4-6, EN6100-4-11, EN6100-4-12, EN61004-16, EN60255-22-1.

**Environmental:** EN60068-2-2, IEC 255-21-1, IEC 255-21-2 & IEC 68-2-56

Also conforms to the following: NGTS (UK National Grid Technical Specification) 2.13, Issue 3 for EMC and Environmental, NGTS 3.3.8 Issue 1 for EMC and Environmental (National Grid Company plc Approval - Category 'A' status - permitting unrestricted use as WTI and 'Overtemperature Protection Device')



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