DAM – D



(R)

DIGITAL UNIVERSAL AMPERMETER (True RMS) ▶ 2 Over Current Set



General Informations

The device can be used in electrical panels, laboratories and test devices. With the assistance of a current transformer, it measures the AC current passing through the system in terms of Amper unite. Two over current set (SP1, SP2) with a different output contact for each. The first set value is SP2, the higher one is SP1. When the current exceeds the adjusted first over current value (SP2) then the alarm1 led will start to blink and after the set delay time, the device would change the possition of the Re2 output contact. If the current exceeds the higher over current value the device opens its 1st output to The current is called apermed if it is play the prime limit.

output too. The current is called normal if it is below these two limits. After energizing the device, "dA -d " message appears on it's screen for 2 seconds and then it starts to show the current value. Even when the power supply is off, the stored values will not be deleted.

■ When the measured value of the seconder current reaches 5,1 A, "OvEr" message starts to flash on the screen to warn the user that the value of the current exceeded the limit values.

Fast Buttons:

While in measurement screen, pressing up button shows SP1

Pressing down button shows SP2

Parameter entrance :

It can be reached pressing the set button. **Set :** The menu that parameters can

The menu that parameters can be adjusted in. to enter this menu set button must be pressed. **CtrF**, **SP1,d-t1**, **SP2**, **d-t2**, **hYS**, **Sd-t**, **r-t**, **CO**, **LtCh**, **cut**, and **qut** submenusare included within this menu. These parameters will flash on the screen. In order to change any of them set button must be pressed, then the screen will stop flashing and using the direction buttons the new value can be applied. Pressing the set button again would store this value. > **ctrF**: **Current transformer ratio**. It can be set between 5 and 10000 Inorder to set the value set button must be pressed then

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10000. Inorder to set the value, set button must be pressed then using the direction button the aimed value can be set. Pressing set again would store the new value.
SP1 : Higher over current value set menu. It can be set

between the maximum current allowed for the current transformer and %10 of the that value. For example for 500/5A transformer, it can be set between 50 and 500A.

d-t1 : Delay time for the higher over current alarm(SP1).
 It can be adjusted between 1 and 30 seconds. The opening of current exceeding adjusted current limit occures after d-t1 delay.
 SP2 : First over current value set menu. It can be set between the maximum current allowed for the current transformer and %10 of the that value. For example for 500/5A transformer, it can be set between 50 and 500A.

► d-t2 : Delay time for the first over current alarm(SP1).
 It can be adjusted between 1 and 30 seconds. The opening of current exceeding adjusted current limit occures after d-t2 delay.
 ► hYS : The percentage Hysteresis value. It can be adjusted between 0,03 and 0,50. When the current exceeds the adjusted over current value then an opening occures. Inorder to close the output contact again, the current must go below the adjusted over current value multiplied by the %hYS, otherwise it will keep the output open.
 ► Sd-t : Start delay time. It can be set btween 0 and 60 seconds.

It is used to prevent any unwanted opening while current is starting from 0 " especially for motors that need high current for start up". In this period opening wouldn't occure even if the current exceeds the adjusted over current value. If this value is set to "0000" the the device will wait for the delay

time **d-t1** and then opens its output.

▶ r-t: Return time. The time required to turn back from an alarm situation. The device waits for that period after the current returns below the adjusted value. It can be set between 2 and 10 seconds.

CO : The menu to adjust the output contact possition.

■ if the value is set to 0000 then the output in normal situation is closed contact and is alarm situation is open contact.

 if the value is set to 0001 then the output in normal situation is open contact and is alarm situation is closed contact.

► LtCh : Latch function. The place to choose wether the device will go out of an alarm manually or automatically

■ if the value is set to 0000 then the latch function is

off and the device will go out of the alarm automatically if the value is set to 0001 then the latch function is

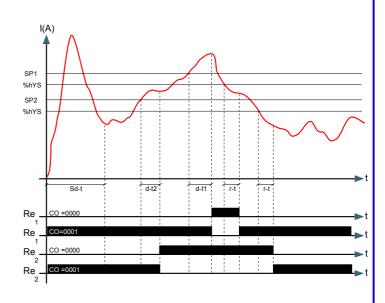
on and the device wouldn't go out of the alarm unless the user presses the set button until the alarm led turns off. If pressed, then device then will go out of the alarm after the delay time r.t.

after the delay time r-t. • cut : Sudden opening function. If the current goes over %150 of the adjusted over current value the the device will open its output without any delay.

- if 0000 then the function is disabled .
- if 0001 then the function is enabled. (not active while start delay time (Sd-t)).
- quit : Pressing set leads to the measurement screen.

Button Functions :

To enter the menu set button must be pressed. Within the menu, the parameters can e reached using the direction buttons. To inter the desired menu set button must be pushed again. This parameters can be adjusted using the direction buttons, pressing the set button again stores the new parameters.



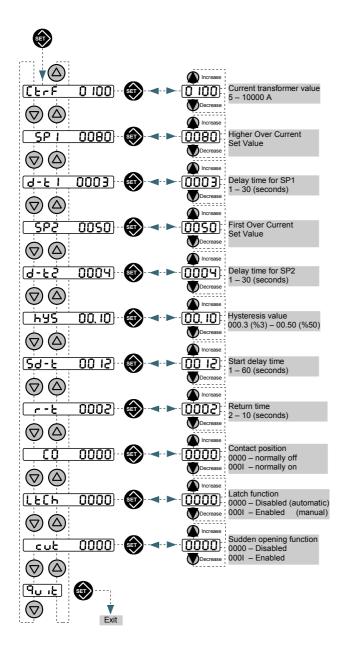
Technical Data

Operational Voltage (Un) Operating range Frequency Power Consumption Measurement Sensitivity Current Transformer Ratio Display Contact Current Protection Class Terminal Protection Class Operating Temperature Operating Humidity

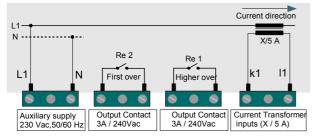
Installation Dimensions : 220Vac : (0,8-1,1) x Un : 50/60 Hz : < 4VA : %1 +1 digit : 5/5....... 10000/5 A : 4 Digits Led Display : Max. 3A / 240Vac : IP 20 : IP 00 : - 5 °C + 50 °C : %15 %95 (without condensation) : to the panel tap : DAM – D – 96 (96x96x80 mm) : DAM – D – 72 (72x72x80 mm) : DAM – D – 48 (48x48x50 mm)

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Connection Scheme:



Warning !!!

- The message Err1 or Err2 on the screen means that the device has got a failure

Can not be used without current transformer, a current that is higher that 5 A passing through the measurement inputs may damage the device.
 To clean the device use dry dustcloth after de-energizing the device