



D4-ACT1 /P49-ACT1
Accumulation timer
(revision 2)
Operating instructions
and
Guarantee Certificate

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Description:

Whenever a pulse is received, the pre-programmed "on time" is added to the main timer and the two counters (resettable & non-resettable) are incremented and saved to non-volatile memory. The display indicates the remaining time. The counters indicate the number of pulses received (coins deposited). The device may be programmed to either reset after a power failure, or continue where it left off. To enable the device to be installed in a location where access to the keypad is restricted, the non-resettable counter value may be viewed by shorting the "counter" terminals. The timer relay is energised whenever the main timer is NOT equal to zero. The separate alarm relay can be programmed to indicate when the remaining time is running out. See description of the different functions for further details. Menu functionality and relay specifications are listed on the back page.

Menu options:

- On time "on t" (default: 1 minute)

Whenever a pulse is received, the main timer is incremented by this amount.

- Resettable counter "r.Cnt" (default: 0)

This counter is incremented whenever a pulse is received. To reset the counter, press the "+" and "-" buttons simultaneously while the value is being displayed.

- Total counter "Cnt"

This counter is incremented whenever a pulse is received. It can only be reset by selecting the reset option see ("rEst").

- Alarm time ("ALAR") (default: 30 seconds)

The alarm relay is energised whenever the remaining time is less than the programmed alarm time.

- Save timing values on power failure (default: off)

If set to "on" the device will continue timing where it left off after a power failure.

- Reset ("rEst)

By selecting this option, all values are reset to default.

Lock adjustment & full / reduced menu: (these settings are not changed via the menu)

When not in a menu or sub-menu, press and hold "+" and "-". After 3 seconds the display will show "----". If the keys are released at this point, the lock settings feature will be activated (settings may be viewed, but not changed). If the keys are held for an additional 2 seconds, the display will show "____". The full menu will be activated. To toggle the lock feature, or full / reduced menu, repeat the above procedure.

Please Note:

- As a power saving feature, the display dims if settings are not being made.
- Even though the device seems to operate correctly, the relay(s) will not energise if the input voltage is below the operating voltage.

Specifications:

| | |
|----------------------|---|
| Time range: | 0 – 99:59:59 |
| Accuracy: | ±0.05% |
| Counters: | 0-9999 (before roll-over) |
| Display: | Remaining time time > 1 minute: hour & minutes time < 1 minute: seconds |
| non volatile memory: | eeprom: life expectancy ±100 000 pulses |
| Input voltage: | +/-15% of rated voltage |
| Led indication: | Timer relay status, Alarm relay status |
| Min pulse width: | 45ms (de-bounced) |

Menu functionality:

All adjustments are made via the three front mounted buttons. Press the “MENU” button repeatedly until the desired setting is reached, press “SELECT” to display the current value of the selected setting, or sub menu (if applicable). The “+” and “-“ buttons are used to change the value. “ENTER” will return the device to the menu. The “BACK” button will exit the menu.

Eg: Set device to add 10 minutes and 30 seconds whenever a pulse is received:

Press “MENU” to display “on t”. Press ”SELECT”. “SEC” is displayed. Press “SELECT” and change the value to “30” using the “+” and “-“ buttons. Press “ENTER”. “hour” is displayed. (this is where the hours and minutes are adjusted). Press “SELECT” and change the value to “10”. Press “ENTER” Press ”BACK” to exit the menu.

Relay specifications:

| | |
|------------------|--------------------------------------|
| Contact rating: | 10A 250 VAC 2500VA (Resistive) |
| Mechanical life: | 30 million operations |
| Electrical life: | 250 000 operations (at maximum load) |

Note: If the input voltage is below the minimum operating voltage, the relay may not energize.

12 Month guarantee:

Our product is guaranteed for a 12 (twelve) month period from date of purchase. This guarantee is valid for defects arising from failure during specified conditions. This guarantee does not cover damage due to abuse, tampering or improper installation. Our company does not accept liability for any consequential damage or loss arising from product malfunction. Should this product prove to be defective, kindly return for inspection or repair. For further information contact your nearest distributor.

