



Device introduction

ShivaAmvaj digital counter is a convenient device for counting input pulses with high precision and flexibility. The device may be used for counting the number of products as well as the number of times the device is operated, for metering purposes, etc.

MODEL : SDC - 2M
CODE : 17B1
WEIGHT : 165 gr
(72x86x60) mm
IP 30



SCAN QR TO VIEW THE PRODUCT

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Features

- Fully microprocessor-controlled system.
- Two modes of function
 - Mode 1:** A maximum count number of 9999 and adjustable count number in accordance with your needs.
 - Mode 2:** A maximum count number of 99,999,999.
- Capabilities
 - Adjustment of divider number from 0 to 100.
 - Adjustment of output relay based on your needs.
 - Coupling ShivaAmvaj counter devices so that the counter number can be vastly increased (to astronomical numbers).
 - Resetting counters to zero.
- Storing information in the event of power failure.

Technical Specifications

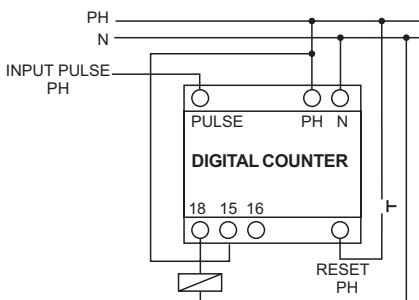
- Pulse/Reset/Supply Voltage: 180-250 VAC, 50-60Hz
- Ambient Conditions
 - Temperature: -20°C .. +65 °C
 - Humidity: 70%
- Storage of information up to 40 years with no input power.
- Out put : 5A relay

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Installation Instructions

Install the device on the desired surface using either the rail already mounted on the board or the rail provided separately in the box. For installing the device on the board, you can use the ShivaAmvaj panel frame and attach the wires according to the diagram below.

You may use a microswitch or inductive sensors for the input pulse.



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Device settings

ShivaAmvaj Digital Counter can operate in 2 different modes, as explained below:

Mode 1: In this mode, the counter receives a number (from 1 to 9999) as the final counting point. Upon start of the counting operation, the output is activated once this number has been reached (according to the program given to the output relay, which will be explained in the relevant section).

The output may be programmed in three different ways for activating the output relay after the counter has reached the final counting point.

Permanent connection and no Counting StOP:

In this mode, the output relay is permanently connected just as the final number has been reached. After the relay has been connected, the counter does not count any more pulses (the number shown on the display does not increase any more). To exit this state, the device must be reset.

Permanent Connection and Counting ON:

In this mode, upon the counter's reaching the adjusted final number, the output relay is connected and keeps counting the next pulses.

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Connecting the relay in 1 to 60 Seconds

Upon reaching the final number, the counter number is set to zero and the output relay is – in accordance with the set time duration – connected and then disconnected. After connecting the relay, counting restarts from 0.

Note: During the connection of the output relay, the message **rELY** starts blinking on the lower display.

The counter may also be adjusted so that its displayed number would be increased by 1 for any desired number of adjusted pulses.

By selecting a value greater than 1 for **dlU** (for example 10), the counter would be increased by 1 for every 10 pulses. The selected value can be adjusted from 0 to 100, and if set to zero, the input pulses to the counter are ignored and no counting is performed.

Note: In case of power failure during the counting of input pulses, the counting resumes upon reconnection to the power supply. In case you want the counter to restart from zero after reconnection to the power supply, reset the device.

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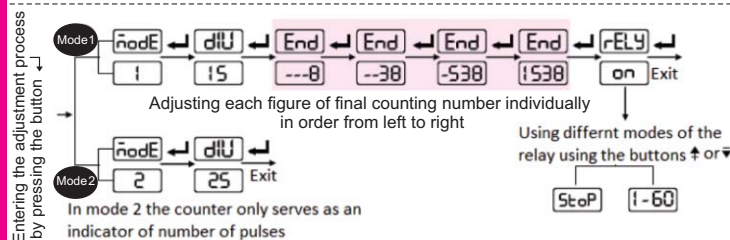
Mode 2 (nōdE 2): In this mode, the counter only serves as an indicator and the device delivers no output. The system counts the input pulses only according to the value set for parameter **dlU** (divider). Both the upper and the lower displays indicate the counted number. For example if the counter has counted to 340171, the number is displayed as **34** **0171**.

Example of Mode 1 (nōdE 1): Assume we would like the device to increase the counter number by 1 for each 15 pulses and the relay to connect the device output for 60 seconds when the counter hits 1538.

To this end, the parameters **nōdE** and **dlU** should be set to 1 and 15 respectively. Additionally, the final count number and the output relay status **rELY** parameters must be set to 1538 and 60 respectively (as shown in the diagram below).

Therefore, for each 15 pulses entering the Digital Counter, the counter increases by 1 and once the number 1538 has been reached, the counter is reset to zero (counting restarts from zero). In addition, the output relay is

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Note: In the adjustment process, the blinking number is adjustable.

Example of mode 2 (nōdE 2): We would like the counter to increase by 1 for each 25 pulses and to perform only the counting operation. In this case, parameters **nōdE** and **dlU** (divider) must be set to 2 and 25 respectively. The lower display would show the 4 lower-value digits of the 8-digit number, while the upper display would show the remaining 4 higher-value digits. The counter can count to 99,999,999 (as indicated in the diagram).

Note: In case the buttons **↑** and **↓** are pressed simultaneously and held down for 4 seconds **rSt**, the device would display the message. After that,

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Respecting the customer is our duty

3 year no question asked guarantee under these conditions;

1-at most it should be within 3 years from the date printed on the label of the product

2-the label on the product should be safe and sound

Shiva Amvaj products in accordance with international standards and with a 3 year no question asked guarantee are presented



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VER:9801

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