



DMY-2030-TOT-FCS  
DMY-2031-FCS

# Process Dual Counters

Process Dual Counters DMY-2030-TOT-FCS and DMY-2031-FCS

- Applied to count parts and boxes over straps or pulses from any sensors.
- Up to four SPDT and SPST digital output modules.
- RS-232 or RS-422/485 communication.
- DMY-2030-TOT-FCS: High-visibility display configurable up to 8 digits.
- DMY-2031-FCS: 14mm and 9mm red leds displays with 4 digits.
- Their robust construction make them tough enough for the most hostile environment.
- Power supply from 90 to 240Vac, 50/60Hz or dc levels.
- Fully configurable by front-panel push-buttons.
- Water-proof front-panel.
- Configuration stored in non-volatile memory.

The design of DMY-2030-TOT-FCS and DMY-2031-FCS Counters is characterized by high reliability and precision, electrical noise and EMI immunity, besides well elaborated technical manual. These features make them ideal for industrial applications in Instrumentation and Process Control.

They have an extruded aluminum case and use the best origin components and parts, proven by rigorous tests and specified according to the strictest worldwide norms. Two frequency inputs are available for signals up to 500Hz, from 300mVpp to 30Vpp and 70Vdc max. DIN 19234 compliance for intrinsically safe NAMUR sensors.

Pre-determination functions generate digital output when the count reaches configurable values. Power supply is universal and can be connected from 90 to 240Vac or dc levels when specified. Flexibility and modularity concepts are clear due to the variety of modules available meeting the widest applications. Up to four alarm modules, serial communication and digital output.

**Order Code:** DMY - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

**| Model |**  
 Dual Process Counter  
 2031-FCS - 2 four-digit displays  
 2030-TOT-FCS - eight-digit display

**| Output 1 |**  
 0 - None  
 1 - SPST Relay  
 2 - Open Collector Voltage

**| Output 2 |**  
 Same code of Output 1

**| Output 3 |**  
 0 - None  
 1 - SPDT Relay  
 2 - Open Collector Voltage

**| Output 4 |**  
 Same code of Output 3

**| Power Supply |**  
 1 - 90 to 240Vac or 130 to 340Vdc  
 2 - 24Vdc  
 3 - 12Vdc  
 4 - Others, under consult

**| Communication |**  
 0 - None  
 1 - RS-232  
 2 - RS-485  
 3 - RS-422

**| Case Protection Grade |**  
 0 - General usage, protected place  
 1 - Front aspersion-proof  
 2 - Weather-proof

Process Dual Counters DMY-2030-TOT-FCS and DMY-2031-FCS

## Specifications

### Inputs

Frequency inputs for signals up to 500Hz, from 300mVpp to 30Vpp and 70Vdc max. DIN 19234 compliance for intrinsically safe NAMUR sensors.

### Outputs

Up to four SPST and SPDT relays rated for 3A at 220Vac. Logic signal, open collector transistor, 40mA/24Vdc maximum with isolation.

### Serial Communication

RS-232 or RS-422/485 with 50Vdc isolation.

### Indication

DMY-2031-FCS: 14mm and 9mm red leds displays with four digits.  
 DMY-2030-TOT-FCS: 9mm red leds display with eight digits.  
 The displays can be configured together with the decimal point.

### Totalization Range

DMY-2031-FCS: 0 to 9999 counts.  
 DMY-2030-TOT-FCS: 0 to 99999999 counts.  
 Counts can be configured together with the decimal point.

### Configuration

By front-panel push-buttons, serial communication and internal jumpers.

### Sensors Power Supply

24Vdc/50mA maximum, isolated from output and power supply with short circuit protection.

### Power Supply

90 to 240Vac 50/60Hz, 24Vdc, 12Vdc or other values. 10W nominal. See order code.

### Operating Ambient

0 to 50°C temperature and 90% maximum relative humidity.

### Dimensions

1/8 DIN (48x96x170mm) HxWxD, (45x92mm) HxW panel cutout.

### Weight

0.5kg nominal.

### Warranty

One-year warranty.