

Countum Group

# SATAM

Metering Solutions

## Large display unit



## DIR 12

DIR 12 is a large display unit for indication of volume or mass. It is designed for installation on aircraft refuelers, hydrant dispensers and tank truck loading stations.

DIR 12 can be connected directly to flow computer via data bus or via frequency input. It operates as a repeater of flow computer displayed volume.

With its configurable pulses input, DIR 12 can also directly display the the volume or mass measured by a flowmeter. Binary input of DIR 12 will be used for resetting the totalizer at the end of the batch.

Flow computers

Measuring systems

Flow meters

Accessories

### Sectors of application

- Refueling of planes and helicopters
- Tanker truck and rail car loading and offloading
- Delivery of heating oil to individuals
- Delivery of fuels to service stations
- Delivery of fuels to worksites, ships, boiler rooms

### Key points

#### Adjustable display

The total volume is displayed in real time with a six digits technology.

The position of decimal point can be adjusted according to customer request.

#### Maximum operating reliability

DIR 12 is equipped with flame proof housing for installation in explosive area and for a maximum ruggedness.

Possibility of flashing display in case of abnormal event.

#### Plug and Play solution

Direct connection to the flowcomputer without the need for any configuration software.

| Model                        | DIR 12   |
|------------------------------|--|
| <b>Description</b>           | Large display unit for indication of total volume or total mass calculated by a flow computer or measured by a flowmeter |
| <b>Display</b>               | High visibility red LED technology<br>6 digits (h: 57mm x w: 32 mm)<br>Decimal point<br>Volume, mass                     |
| <b>Equipment</b>             | Housing<br>Aluminum base with epoxy coating  |
|                              | Cable entries<br>2 - 1/2" NPT and 3/4" NPT   |
| <b>Inputs</b>                | Databus<br>RS232 / 485<br>Secured Modbus protocol<br>Full compatibility with<br>Satam - Equalis flow computers           |
|                              | Frequency / pulses<br>1 kHz max. Open collector or active mode<br>Low level: 0 to +/- 1V, high level: 5V to 36 V         |
|                              | Binary input<br>Reset of displayed value<br>Open collector or 0 - 36 VDC   |
| <b>Operating conditions</b>  | Ambient temperature<br>-20 °C to +55°C   |
|                              | Protection class<br>IP66   |
|                              | Relative humidity<br>95% without condensation  |
|                              | Explosive area<br>ATEX II 2 G Ex db IIB + H2 T5<br>Ex TR CU* (Russia) only with ZC17 meter                               |
|                              | Power supply<br>9 to 36 VDC - 6W   |
| <b>Dimensions and weight</b> | Height x width x depth:<br>170 mm x 380 mm x 140 mm  |
|                              | Weight<br>5 kg   |

\*: In preparation

### Headquarters and Sales Department

PARIS NORD II  
Bat. le Gauvain - 47, allée des Impressionnistes  
BP 85012 Villepinte  
95931 Roissy CDG Cedex FRANCE  
Phone: +33 (0)1 48 63 02 11  
Fax: +33 (0)1 49 38 41 01  
E-mail: sales@satam.eu

### Manufacturing facility

Avenue de Verdun - CS 60129  
14700 Falaise FRANCE  
Phone: +33 (0)2 31 41 41 41  
Fax: +33 (0)2 31 40 75 61



[www.satam.eu](http://www.satam.eu)

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