

• DISPLAY MODULE •
SERIES DB-1200
BI-DIRECTIONAL FLOW



Made in the USA

GENERAL SPECIFICATIONS

MECHANICAL

6"x6"x4" NEMA 4 steel enclosure, wall mount

ELECTRICAL

Input voltage: Standard: 120 VAC 60 Hz
Optional: 240 VAC 50 Hz
24 VAC or DC

Output voltage (nominal): +24 VDC at 200 mA

INDICATOR(S)

Model DB-1201: Six digit rate LCD
Model DB-1202: Separate LCD indicators for each direction
(two total) with two buttons for mode
selection, total reset and programming.

Six digit rate; eight digit totalization
Total reset switch can be disabled via programming
Remote reset available

Programming: Set at factory for particular flow meter
and pipe size (field programming possible)

Memory: Nonvolatile E²PROM memory retains all
program parameters in the event of power loss

DIRECTIONAL INDICATORS

LEDs correspond to the status of the directional output switch

DIRECTIONAL SWITCH OUTPUT

Isolated solid state dry contact: 100 mA, 50V
State: Closed when flow is in direction of arrow on flow meter

FLOW SIGNAL INPUT/OUTPUT

Inputs: 0-15 V pulse output and directional contacts from
any of ONICON's bi-directional flow meters.

Output: Additional output signal(s) ordered with flow
meter are available for connection to control system
via the display module terminal strip.

GENERAL SPECIFICATIONS continued

AUXILIARY OUTPUT OPTION

Provides a binary (digital) output or isolated analog output.

Auxiliary output is in addition to any outputs provided
by the flow meter. Limited to one of the following:

ANALOG OUTPUT (ISOLATED): For flow rate

Voltage output: 0-10 V (0-5 V available)

Current output: 4-20 mA

BINARY (DIGITAL) OUTPUTS:

Isolated solid state dry contact: 100 mA, 50V

DIVIDED OUTPUT: For flow rate & totalization; signal
is divided to replace the maximum frequency

SCALED OUTPUT: For totalization; scaled to a
specific unit of volume per pulse (i.e. 10 gal/pulse)

DESCRIPTION

The DB-1200 series display is a modular display center
featuring an indication of flow rate and the direction of
flow for bi-directional applications. An integral 24V DC
power supply furnishes all power requirements for the
display and ONICON's bi-directional insertion flow meter.

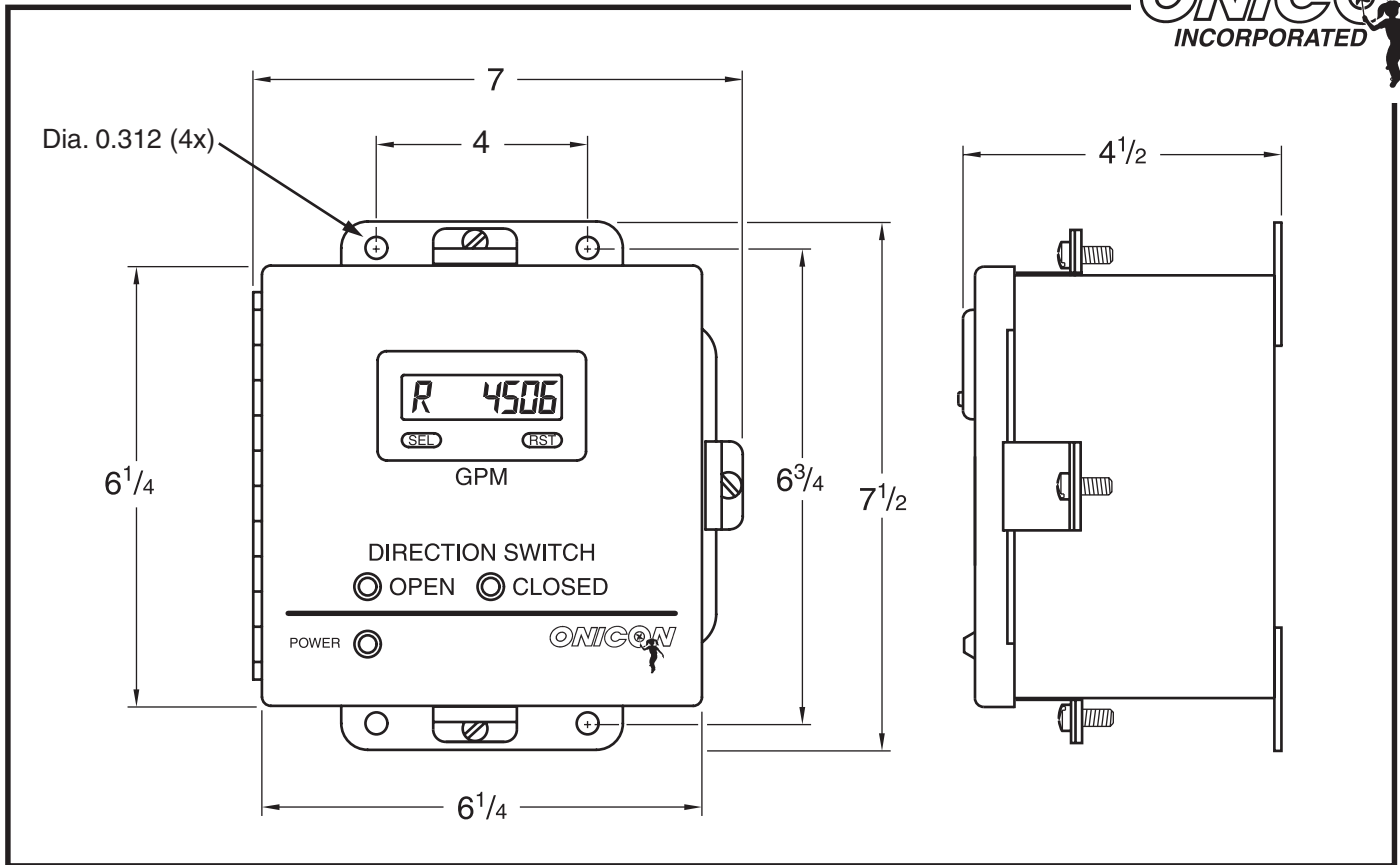
This display converts any ONICON bi-directional flow
meter into a complete flow monitor for local or remote
indication of flow rate and direction. The flow meter may
simultaneously support other remote devices such as BTU
meters, building control systems, and data acquisition
systems.

APPLICATIONS

- Primary / secondary decoupling loop (bypass)
- Stratified thermal storage charge/discharge lines
- Municipal water storage tank charge/discharge lines
- Chilled water, condenser water, and hot water
HVAC monitoring
- Process monitoring in industrial plants

Notes:

SERIES DB-1200



Model DB-1201 shown

How to select your series DB-1200 Display

Series identifier

Reserved for later use

Number of indicators in the display (1 or 2)

Each indicator can be programmed to display RATE, TOTAL, or BOTH. The indicators are programmed at the factory according to customer requirements and the appropriate labels are applied below each indicator.

The indicators can be reprogrammed in the field.

Please specify indicator function and engineering units at time order is placed.

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To select auxiliary output option, refer to specification sheet.