

# Digital Output Module

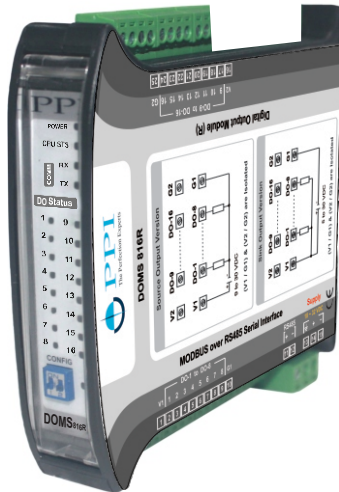
## DOMS816R

8/16 Channels  
 DIN-Rail Mount  
 MODBUS over Serial  
 18 ~ 32 VDC Supply Voltage

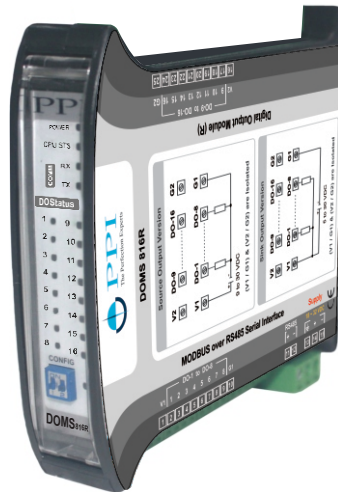
**Process Precision Instruments**  
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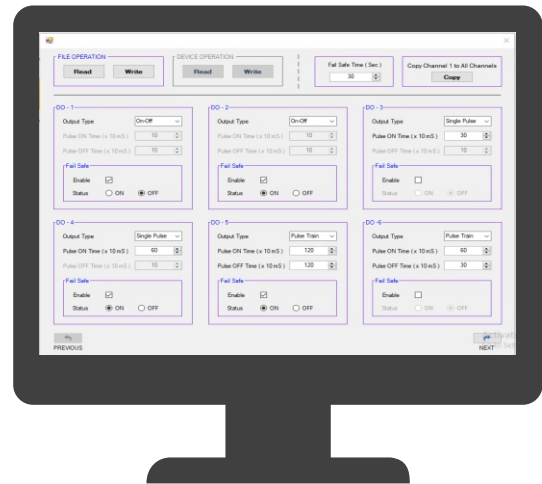
16 Channel



8 Channel



## Configuration Tool



### Salient Features

- 8/16 Digital Output Channels
- Source Output Version :**  
 VCC : 9 to 30VDC, 75mA per Channel
- Sink Output Version :**  
 Open Drain : 5 to 30 V, 200 mA max.
- Supports Discrete Coil (Bits) & Input Register (Bit-Mapped) Modbus Data Type for Output Update
- 3 Digital Output Modes
  - On-Off
  - Re-Triggerable Pulse (Programmable Pulse Time)
  - Pulse Train (Programmable Pulse-ON/OFF Time)
- Three-way Isolation Eliminates Potential Ground Loops between Power, Outputs and RS485 Serial Port
- Programmable Fail-Safe Output States Against Comm-Link Failure
- 2-wire, Half-Duplex, Start-Stop Synchronized, isolated RS485 Serial Port with Industry Standard Modbus RTU Protocol
- Programmable Slave ID, Baud Rate & Parity
- Free PC Tool for Easy Configuration and Parameter Settings
- Compact DIN-Rail Enclosure : 22.5(W) X 101(H) X 119(D), mm
- Wide Supply Voltage Range : 18 ~ 32 VDC (24 VDC Nominal)

### General Information

<b>Product Type</b>	8/16 Channel DIN-Rail Digital Output Module MODBUS over RS485 Serial Interface 18 ~ 32 VDC Supply Voltage
<b>Ordering Code</b>	DOMS-8 Source, DO with connection type Source DOMS-16 Source, DO with connection type Source DOMS-8 Sink, DO with connection type sink DOMS-16 Sink, DO with connection type sink
<b>Quantity</b>	1 Unit
<b>Accessories</b>	(Optional) USB to RS485 Convertor
<b>Similar Modules</b>	AIMS-4X, AIMS-8X AOMS-4U, AOMS-8U DIMS-816R

# Digital Output Module

## Channel Specifications

Number of Channels	8/16
Output Types	<ul style="list-style-type: none"> <li>• <b>Source Output Type</b> : VCC 9 to 30 VDC, 75 mA per Channel</li> <li>• <b>Sink Output Type</b> : Open Drain, 5 to 30 V, 200 mA max.</li> </ul>
Output Modes	<ul style="list-style-type: none"> <li>• On-Off</li> <li>• Re-Triggerable Single Pulse with Programmable Pulse-ON Time (0.01 to 300 Seconds)</li> <li>• Continuous Pulse Train with Programmable Pulse-ON &amp; Pulse-OFF Time (0.01 to 300 Seconds)</li> </ul>
Fail-Safe Mode	The Outputs switch to programmed ON or OFF state upon Communication link failure for more than programmed time period (1 to 300 Seconds)
Isolation	Three-way Isolation Eliminates Potential Ground Loops between Power, Outputs & RS485 Serial Port 1500VAC for 1 second or 250VAC continuous

## Serial Communication

Port	RS485, 2-wire, Half Duplex, Start-Stop Synchronized
Protocol	MODBUS RTU
Baud Rate	Settable : 2400, 4800, 9600, 19200, 38400
Parity	Settable : None, Even, Odd
Max. Units per Loop	31
Max. Distance	1200 Meters

## Power Supply

Type	Switch Mode (SMPS)
Power Requirement	18 ~ 32 VDC, nominal 24 VDC @ <b>100mA Max.</b> <b>Note</b> : In case of looping multiple modules on one power source, make sure that the power source is capable of supplying minimum 100mA current per module.
Consumption	3 VA Max @ 24 VDC

## Physical

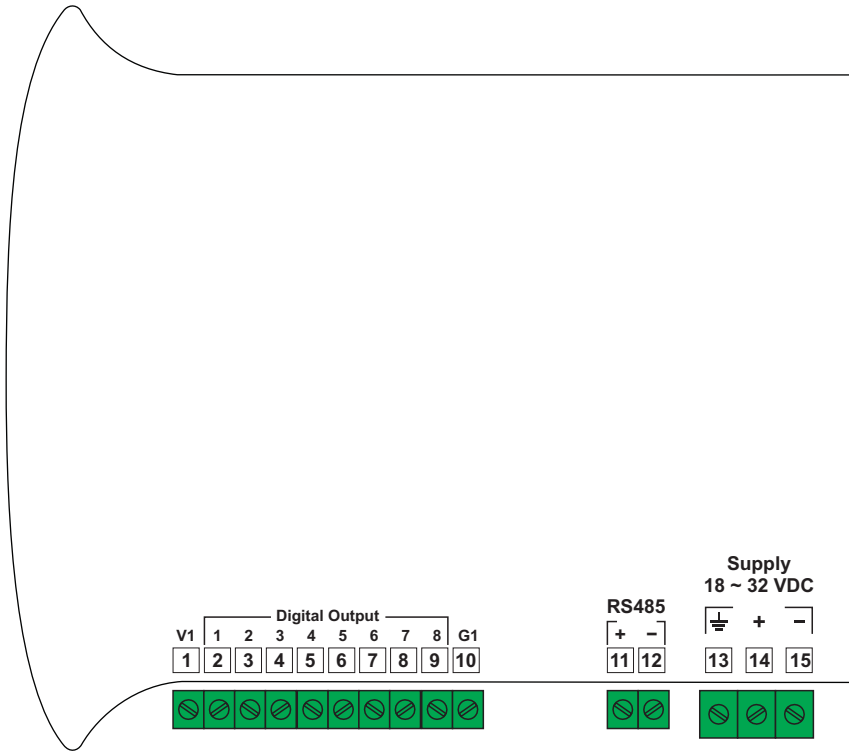
Mounting	DIN-Rail
Overall Dimensions	22.5(W) X 101(H) X 119(D), mm
Terminals	Screw Type, Pluggable
Weight	400 gm, Appx.

## Environmental

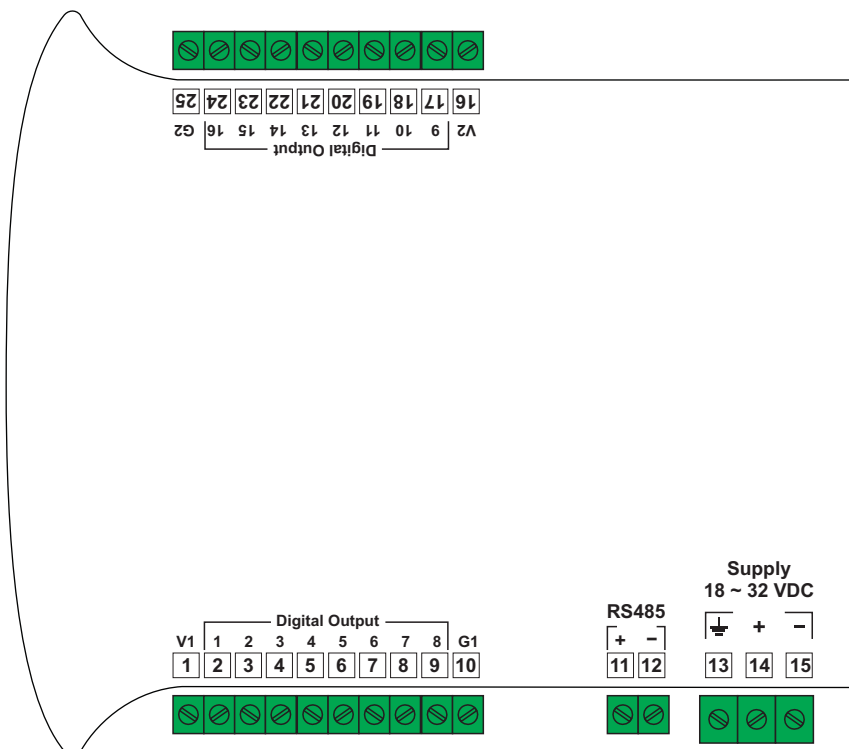
Operating Ambient	0 to 55°C & 5 to 90%RH Non-condensing
Storage Temperature	-10 to +70°C
Atmospheres	Not Suitable for use in Corrosive or Explosive Atmospheres. The Panel in which the Instrument is Mounted must be free of Electrically Conductive Pollution.

## Terminations & Electrical Connections

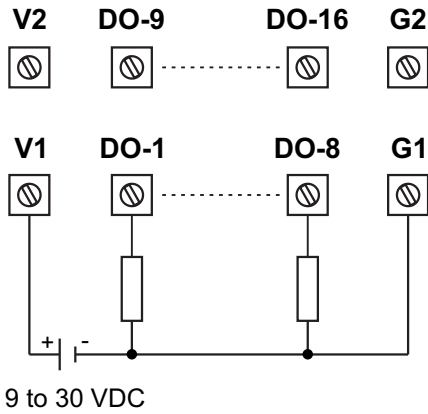
### 8 Channel



### 16 Channel



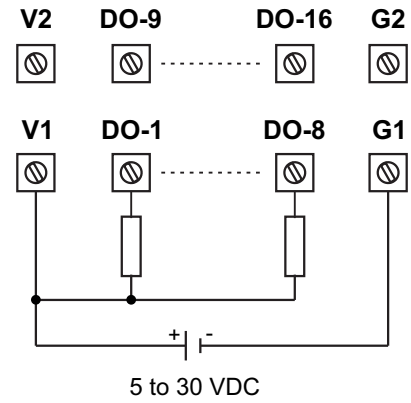
## Source



9 to 30 VDC

**(V1 / G1) & (V2 / G2) are Isolated**

## Sink



5 to 30 VDC

**(V1 / G1) & (V2 / G2) are Isolated**

**Process Precision Instruments (An ISO 9001 : 2008 Company)**

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