



MANUFACTURING & SMART AUTOMATION SOLUTIONS

Salient Features of OUR IO MODULES:

2,4,8,16 Modules with single or combination of AI, DI, DO AO, Pt100 – Our Modules have Function code Serial Modbus over RS 485 and Ethernet (TCP 4.0) Adjustable Baud Rate, Assign Slave ID.

Our Model are available in 10 & 12 bit single serial Modbus address variants

Our Modules can be jumper selected for 4-20, 1-5 VDC Or 0-10 VDC inputs

PROTOCOL CONVERTER – RS 485 to Ethernet, Ethernet to MQTT, RS 485 to LORA Device

LORA ENABLE IO MODULES (Nodes & Gateway)- Wireless Communication and Data Polling within a clustered environment with one SIM cost within radius of 5 KM. Best suited for Smart City projects of water, waste, Lighting, Fire, AQI, Washroom data.

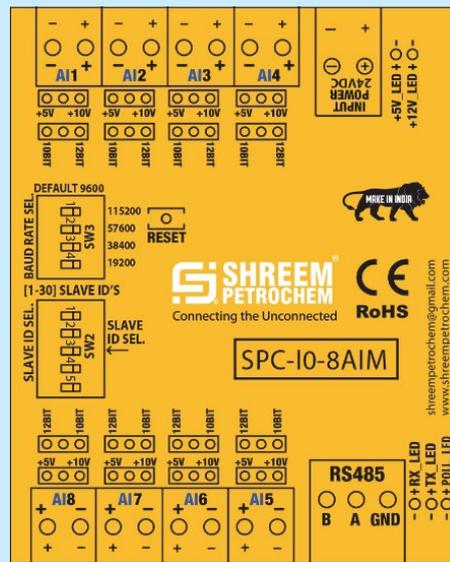
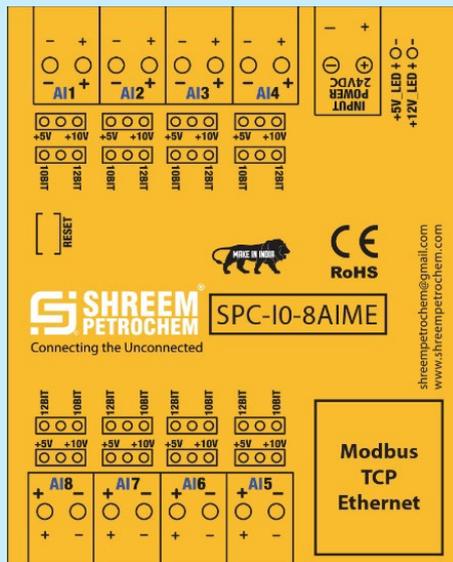
IOT 4 G GATEWAY – MQTT (IO inbuilt modules (AI, DI, AO, DO on RS 485 or Ethernet) -4G gateway with MicroSD Memory Card

SENSORS: T&H, GAS (Ch4. Ammonia, CO, CO2), AQI 10 & 2.5, Ultrasonic Sensors.

SYSTEM INTEGRATION (Solutions): For Remote Monitoring and sustainable Warranty and assured Performance Guarantee on HMI/SCADA/PLC/IOT wired or wireless, With or without IS Barriers

OEM of Air Compressors/Dryers, Diesel Engines, Refrigerated Fleet Owners, Water Pump sets, Hydroponics, Wind Power & Energy Mgmt, Fleet, WTP, STP, ETP, Oil & Gas Pipelines, Terminals, GGS.

ROBOTIC PROCESS AUTOMATION – Make a bot and deploy in your ERP system to process all repetitive jobs of all kinds (PDF, xls, emails, DOC (AFTER DIGITIZATION) or HR, Financial, Sales Purchase, Rentals, Utilities, data and derive cross functional Analytics to make EASE OF DOING ACCURATE BUSINESS in Real TIME DASHBOARDS



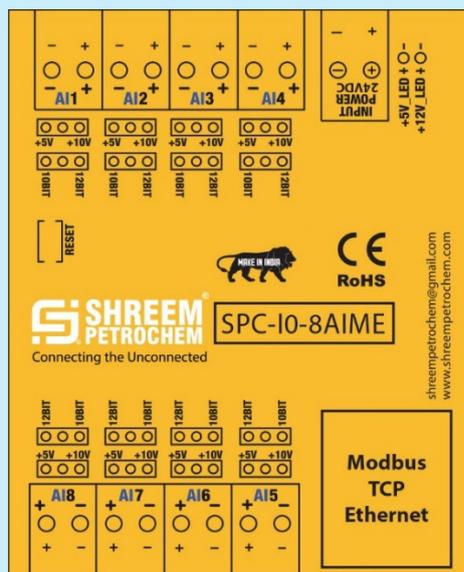
Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	4-20 ma/1-5 vdc/2-20 vdc	40001-40008 (addresses)
Output	TCP/IP Ethernet Or RS 485	Modbus Serial
Similar Variants	AO, DI, DO Combo	
Channels	2,4,8	

Communication		
Serail Modbus Address	RS 485, 2 Wire, half Duplex	DIP Sw Adj Slave ID
Baud Rate Adjustable	Yes (Default 9600)	9600 – 19200 Kbps (DIP SW)
4G – SIM (IOT)	No	With other Models
MEMORY CARD	No	With other variants
MQTT (IOT)	No	With other variants

Certification	CE	
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	

Application – 2 Versions – On RS 485 and Ethernet with more ,2,4,8 Channels (4-20mA) , 0-5 VDC, 1-10 VDC inputs (PT,F, L etc)

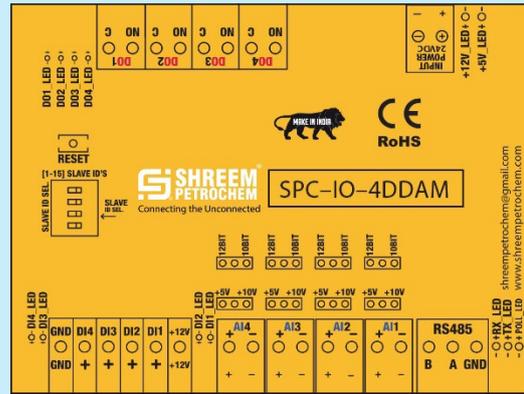
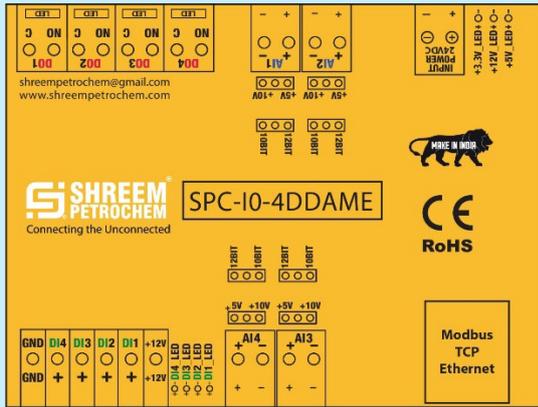
For Detail Guide: Brochure, Application Note, Set up, Wiring, Configuration contact on our email



Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	Analog input	4-20 ma or VDC Jumper
Output	Communication (2 Way)	RS 485
Similar Variants	2,4,8 channels	Available
Channels	8	
Word Bit Size	10 & 12 Bit Available	
Serail Modbus Address	RS 485, 2 Wire, half Duplex	DIP Sw Adjustable
Addresses	40001-40008 (Holding Reg)	10 or 12 bit Jumper
Baud Rate	Yes (Default 9600)	9600 –19200 Kbps (DIP SW)
Ethernet	Yes	with TCP protocol, IP4
Gateway	No	On Demand
Data Storage	No	On Demand
LED	Power LED	
MQTT	No	On Demand
Jumper Settings	For 10 and 12 Bit	Variant Available
Certification	CE, ROHS	
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	

Application: Connect Sensors (4-20 mA/VDC) process inputs (Pressure, Temperature, Flow, Vibration, Level) to PLC/HMI/ RTU in Daisy chain

For Detail Guide: Brochure, Application Note, set up, Wiring, Configuration contact on our email

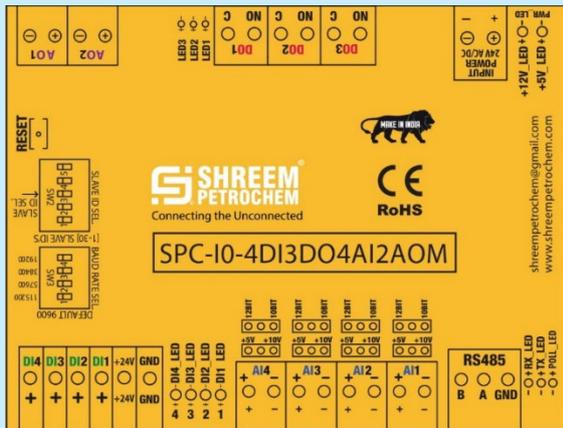


Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	4 DI, 4 AI	40001- 4 , 10001-4
Output	4 DO (relay Contact) – 00001-0004	Potential Free (230 VAC 7/10 A
Similar Variants	2,4,8,16	Other models available
Channels	2,4,8 combo cards	

Communication		
Serail Modbus Address	RS 485, 2 Wire, half Duplex	DIP Sw Adj (Slave ID)
Baud Rate	Yes – Default 9600	9600 – 19200 Kbps (DIP SW)
4 G SIM	NO	With Other Variants
MEMORY CARD	NO	With Other Variants
MQTT	NO	With Other Variants
Ethernet	Yes	TCP/IP
Certification		
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	

Application: Connect multiple IO cards System in Daisy Chain through MicroPLC/HMI with Switches (P,T,F, L) , Contactors, Control Valves, Sensors (P, T, F, L) on RS 485/Ethernet

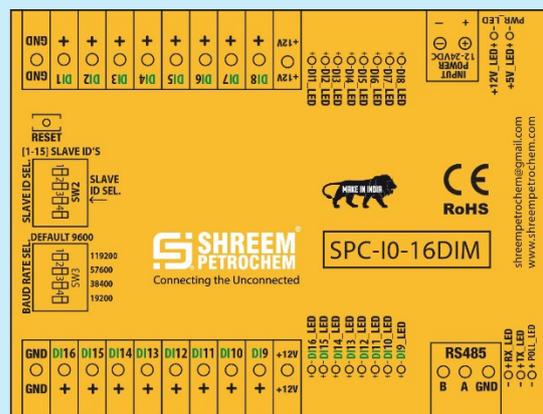
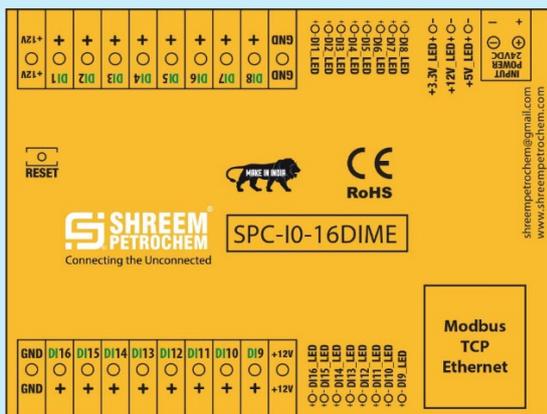
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Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	4DI, 4 AI,	INPUTS TO RS 485
Output	3 DO, 2 AO	RS 485 - Slave Device
		Two Way Communication
Channels		More Variants Available
Word Bit Size	10 & 12 Bit	Jumper Set
Serail Modbus Address	RS 485, 2 Wire, half Duplex	DIP Sw Ad (Slave ID)
Relay DO Output	Yes (Pot Free)	230 VAC, 7 A, NO, NC
Baud Rate	Yes – Default 9600	9600 – 19200 Kbps
Ethernet	No	ON Demand
Gateway	No	On Demand
Data Storage	No	On Demand
LED	Yes (for DI, DO, status)	
MQTT	No	ON Demand
Jumper Settings	For 10 and 12 Bit	Variant Available
Certification	CE, ROHS	
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	
Addresses	DI -10001,2,3,4	AI – 40001,2,3
	DO -00001, 2, 3	A0 – 40005,6

Application: Multiple in process and manufacturing Units – Device connected to HMI/PLC/RTU & further to IOT

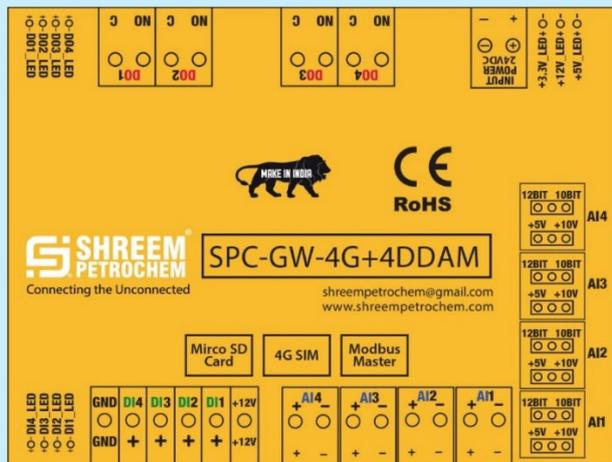
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Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	16 DI (Sinking Type)	+ ve VDC , -Ve Common
Output	Serial Modbus	RS 485
Similar Variants Available	2,4,8,	With DI,DO, AI,AO
Addresses	01- 16	Coil
Word Bit Size	Not Applicable	IN Other mOdelS
Serail Modbus Address	RS 485, 2 Wire, half Duplex	DIP Sw Adj – Slave ID
Relay DO Output	No	Other Product Available
Baud Rate	Yes – Default 9600	9600 – 19200
Ethernet	Yes (TCP/IP)	Also Available
4 g Gateway	No	On Demand
Data Storage	No	On Demand
LED	Yes (DI Status)	OK
MQTT	No	On Demand
Jumper Settings		
Certification	CE, ROHS	
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	

Application: ON/OFF Push Button Inputs, Process Switch/Alarm Inputs, Valve/Door Limit Sw Inputs etc; with RS 485 and Ethernet Option and 2,4,8, Channel Innputs/ Outputs

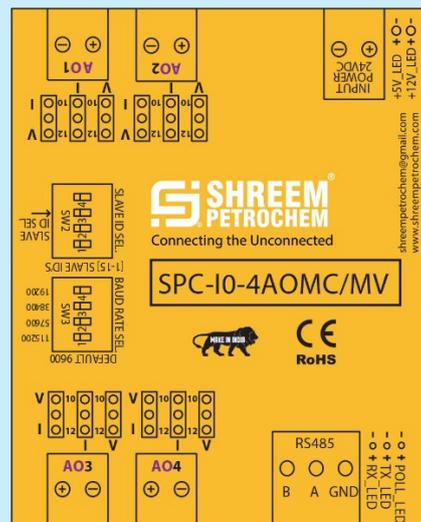
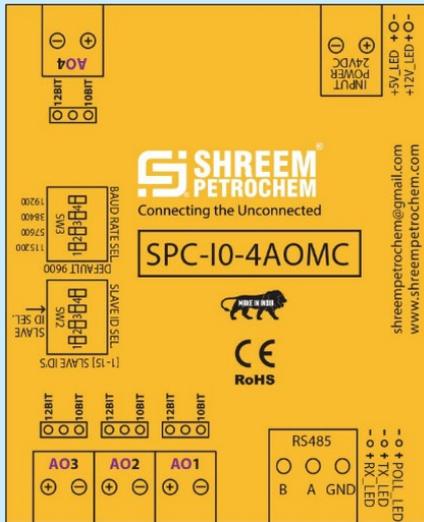
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Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	4 DI, 4 DO, 4 AI	SWITCHES AND CURRENT
Output	Serial Modbus	RS 485 (As Master)
Similar Variants	Available	
Channels	4,8, Variants available	DI, DO, AI, AO ,RTD
GPS	AVAILABLE	ON ORDER
Communication		
Serail Modbus Address	RS 485, 2 Wire, half Duplex	DIP Sw Adjustable
Relay DO Output	No	With 230 VAC, 7 A, NO, NC
Baud Rate	Yes – 9600 Default	9600 – 19200 Kbps
Ethernet	NO (Available On Order)	TCP protocol, IP4
Gateway	Yes	4G SIM, WITH ANTENNA
Data Storage	YES	SD micro Card
LED	Power LED	
MQTT	YES	(OPTIONAL ON ORDER)
Jumper Settings	For 10 and 12 Bit	Variant Available
Certification		
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	

Application : 4 G (sim) ENABLED IOT GATEWAY WITH MQTT INTERFACE, WIFI FOR BAS/BMS, Smart Agriculture, Smart City, Smart Factory, Livestock monitoring. WE SUPPORT CLOUD SERVICES ROO, WITH MORE SLAVE DEVICE CONNECTIVITY ON EHTERNET OR RS 485, This module is with SD memory Card

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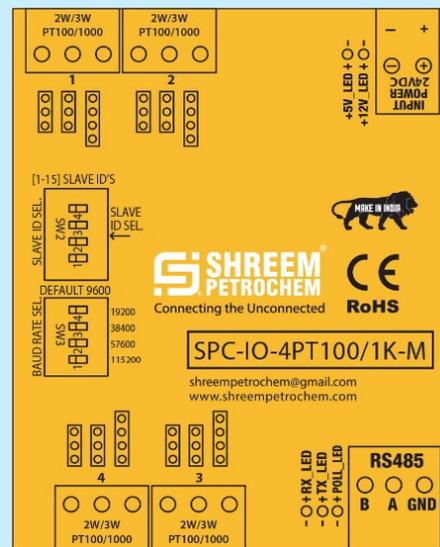
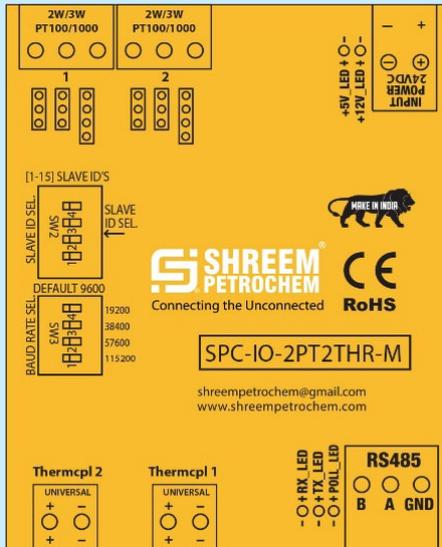
Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	From Serial Modbus RS 485	40001-40004 (addresses)
Output	4-20 mA	10 or 12 bit count Jumper
Similar Variants	2 variants	with mA or VDC outputs
Channels	4	
Communication		
Serail Modbus Address	Select SLAVE ID	DIP Sw Adjustable
Baud Rate	Yes (Default 9600)	9600 – 19200 Kbps (DIP SW)

Certification	CE, ROHS	
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	

Application: To Process Control Valves (Pressure, Temperature, Flow, Level), Speed Controls
 Select the correct function code and address to control that Parameter. 2,4,8 CHANNELS
 VERSION AVAILBLE

Connect output of any HMI/PLC (Master) with RS 485(AO Module as assigned SLAVE ID) port to give control command over 2 wire ,Half Duplex Serial Modbus and Write Unsigned Value (0-4095 Counts = 4-20mA or 2-10 VDC)

For Detail Guide: Brochure, Application Note, Set up, Wiring, Configuration contact on our email



Specification	Conditions	Remarks
Power Supply	24 VDC	10-30 VDC
Input	2 or 4 (RTD), 2 Or 4 TC	RTD & Thermocouple (K)
Communication (To & Fro)	Serial Modbus	RS 485 , 2 Wire
Similar Variants	2,4,8,	
Addresses	Holding Register	40001-4
Serail Modbus Address	RS 485, 2 Wire, half Duplex	DIP Sw Adj
Baud Rate	Yes – Default 9600	9600 – 19200 Kbps
Ethernet	No	Can Be Developed on Order
Gateway	No	With Other Variants
Data Storage	No	With Other Variants
LED	Power LED	
MQTT	No	With Other Variants
Certification	CE, ROHS	
Response Time	2mSec	Max 6 mSec
Mounting	Din Rail	
Approvals	ROHS	
Protection	Revere Polarity Connection	In both power & Modbus
Warranty	1 yr	
Enclosure	CE	

Application: Move 3 WIRE RTD and/or Thermocouple in field to PLC/HMI/RTU to remote device

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