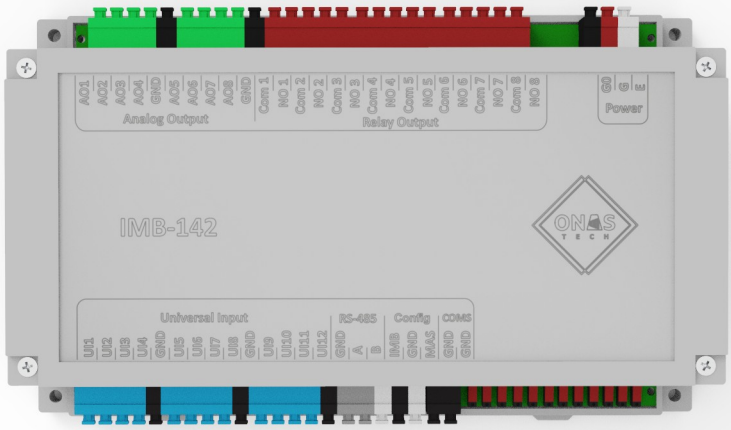
TECHNICAL DATASHEET

IMB-142 Input output Modbus RTU module

Introduction

Welcome to ONAS-TECH: Your Gateway to Cutting-Edge Electronics Solutions.



At ONAS-TECH, we are committed to reshaping the electronics industry landscape. With a foundation built on pioneering technological advancements, ONAS-TECH stands as your reliable partner for innovative and energy-efficient electronic solutions. As we embark on a mission to revolutionize the way electronics are perceived and utilized, we invite you to explore our latest product offerings and join us in shaping the future of technology together.

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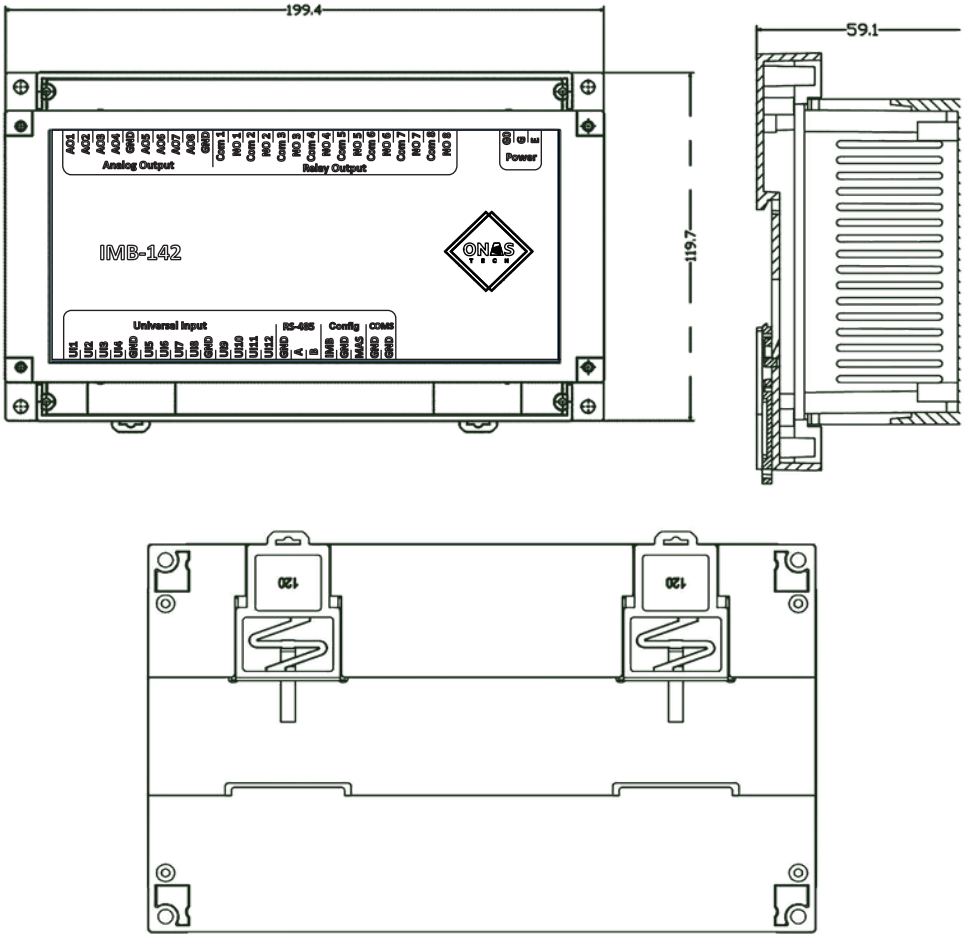
Overview

OP-IMB-142 is a new version from our RTU modules based on Modbus RTU communication protocol which is used with PLCs and DDCs /BMS Controllers, comes with 8 Relay outputs, 12 universal inputs, and 8 analog outputs, ABS IP55,voltage for the power (24VAC) supporting web browser page to configure the communication setting and inputs Configurations { Digital Input / Analog Input / NTC10K PT1000}.

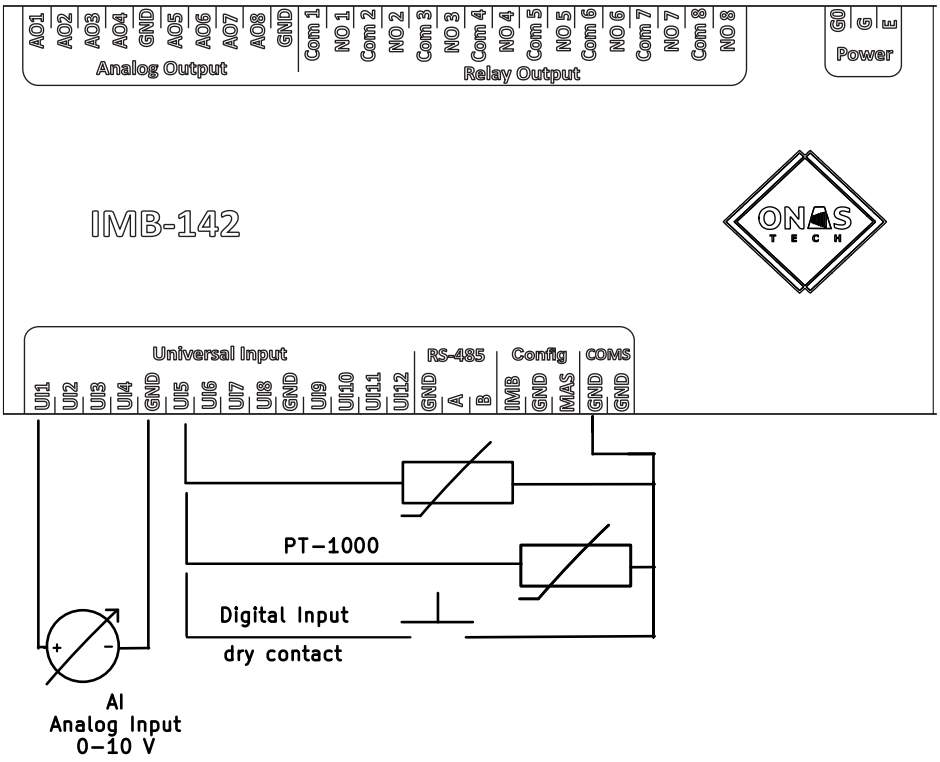
Technical Specifications

Property	Description	
Input Voltage / Power Cons.	**24V AC ± 20% or (24~30) VDC / 8VA**	
Frequency	**50Hz/60Hz for the AC input voltage**	
12 Universal Inputs Input Registers	**12UIs can be used as analog inputs with resolution 12bits**	***Analog inputs (Mode 2)*** **Using terminal GND and Any universal input** **0...10 VDC 0(2) ...10 VDC** ***Digital inputs (Mode 1)*** **Using terminal GND and Any universal input** ***Temperatures (Mode 1)*** **Using terminal GND and any universal Input** **NTC10kΩ (-30...+100 °C)** **PT1000-1 (-50...150 °C)**
8 Analog outputs Holding Registers	**8 AO Terminals A1-----A8 +GN (Analog out)**	**0...10 VDC / ± 1 mA**
8 Relay outputs Coils	**8 relay outputs O1-C1.....O8-C8**	**Changeover relays Voltage: 19...250 VAC, 1...29 VDC max. total current: 2 A per channel**
Terminals	**Screw and Screw plugs**	
Communication Protocol	**Modbus RTU (RS-485)- changing address by software method**	
Operating Temperature	**0 ... 60 °C**	
Compliance	**Approval from the ministry of industry in Egypt. Complied to IEC 63044-5-1 & IEC 63044-5-2 requirements which are equivalent to the following: - UL 916 requirements. - EN 50491-11 requirements.**	

Mounting

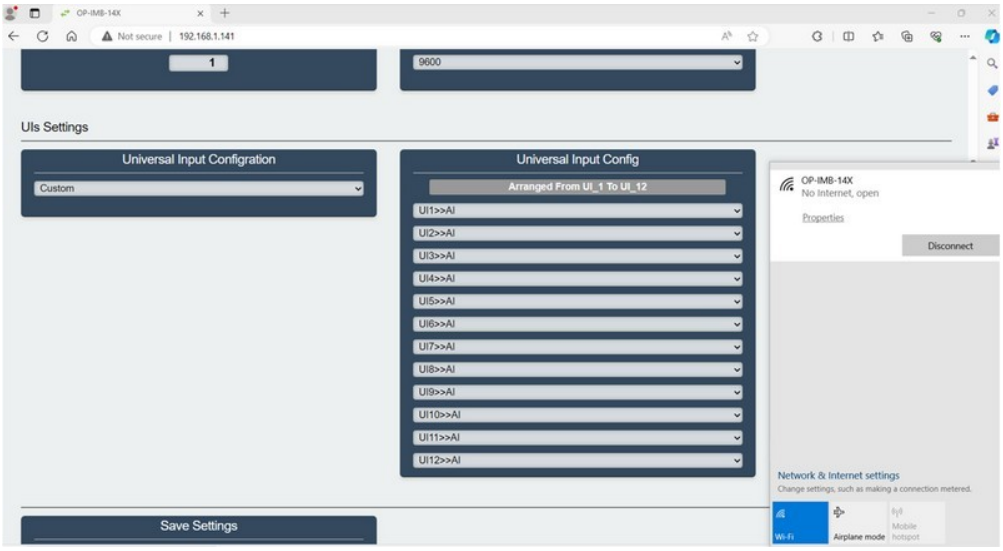


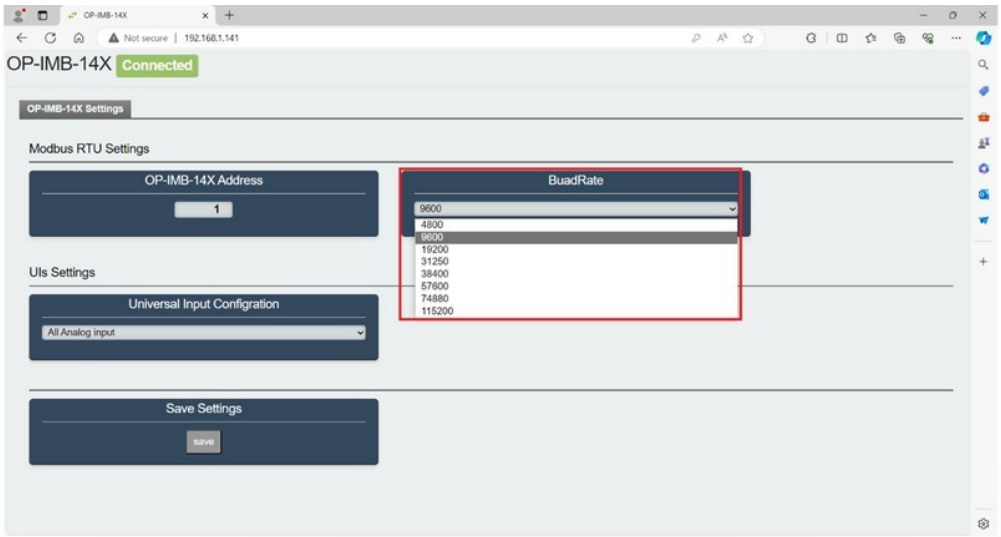
Wiring

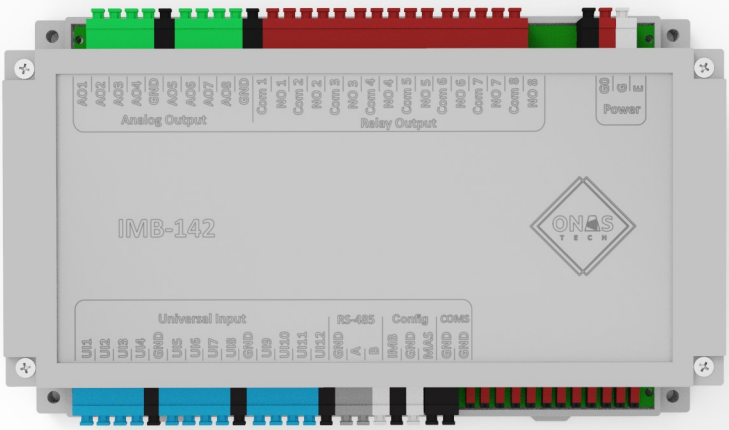


Web server configuration

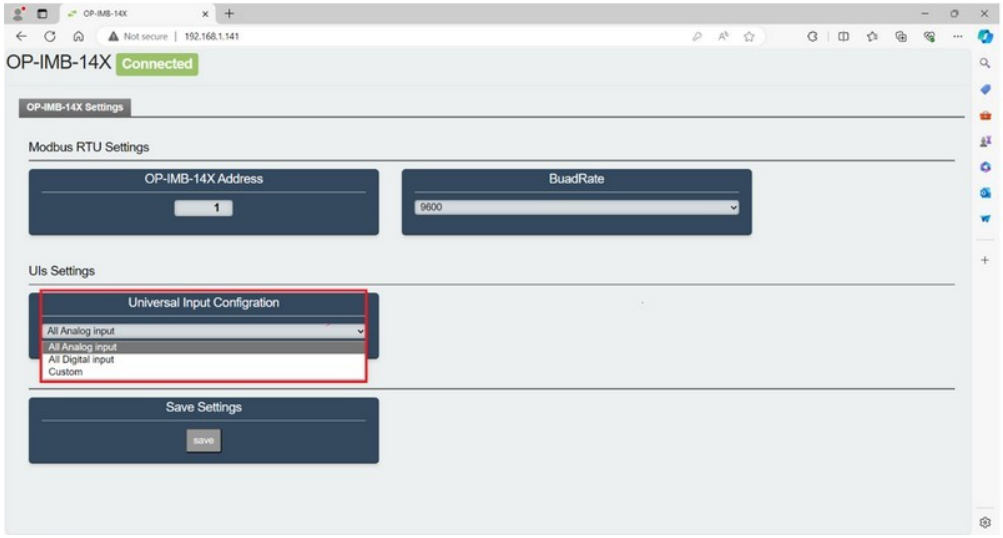
This feature also here in OP-IMB-142 for communication setting such as address , baud rate and the UIs configuration between digital input(on/off) or analog input(0-10)V or resistance . by enabling the wifi in the module and connecting the wifi network then you can set the address and baud rate as per your requirements

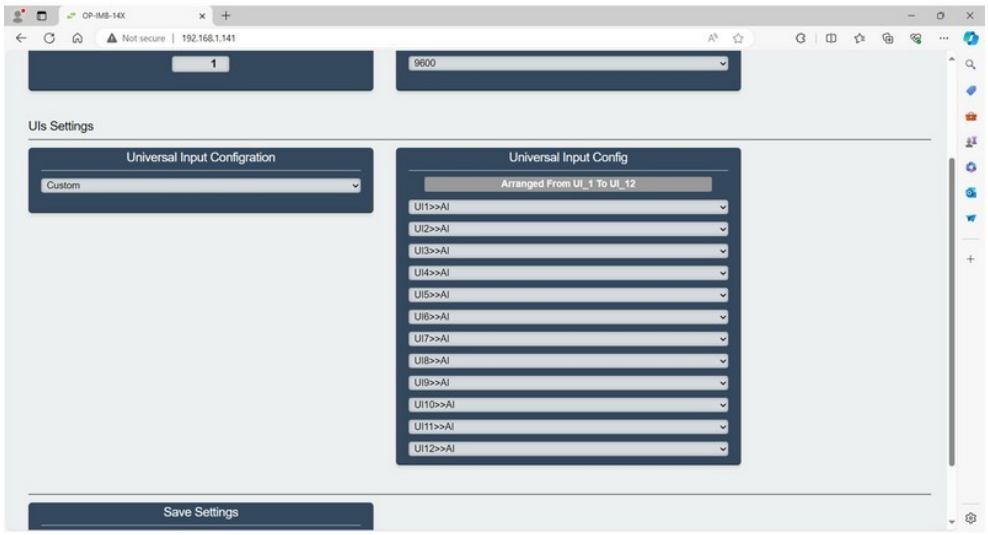






Web server configuration





Module Registers

Here the registers of the module to be used from the DDC /PLC software

UI name	Register number/type	AO name	Register number/type	RO name	Register number/type
UI 01	30001/ Input register	AO1	40001/ Holding register	RO1	00001/ Coil
UI 02	30002/ Input register	AO2	40002/ Holding register	RO2	00002/ Coil
UI 03	30003/ Input register	AO3	40003/ Holding register	RO3	00003/ Coil
UI 04	30004/ Input register	AO4	40004/ Holding register	RO4	00004/ Coil
UI 05	30005/ Input register	AO5	40005/ Holding register	RO5	00005/ Coil
UI 06	30026/ Input register	AO6	40006/ Holding register	RO6	00006/ Coil
UI 07	30007/ Input register	AO7	40007/ Holding register	RO7	00007/ Coil
UI 08	30008/ Input register	AO8	40008/ Holding register	RO8	00008/ Coil
UI 09	30009/ Input register				
UI 10	30010/ Input register				
UI 11	30011/ Input register				
UI 12	30012/ Input register				

Order Information

Feel free to contact us about your situation to select the best solution for you based on your IO List, ONAS presents

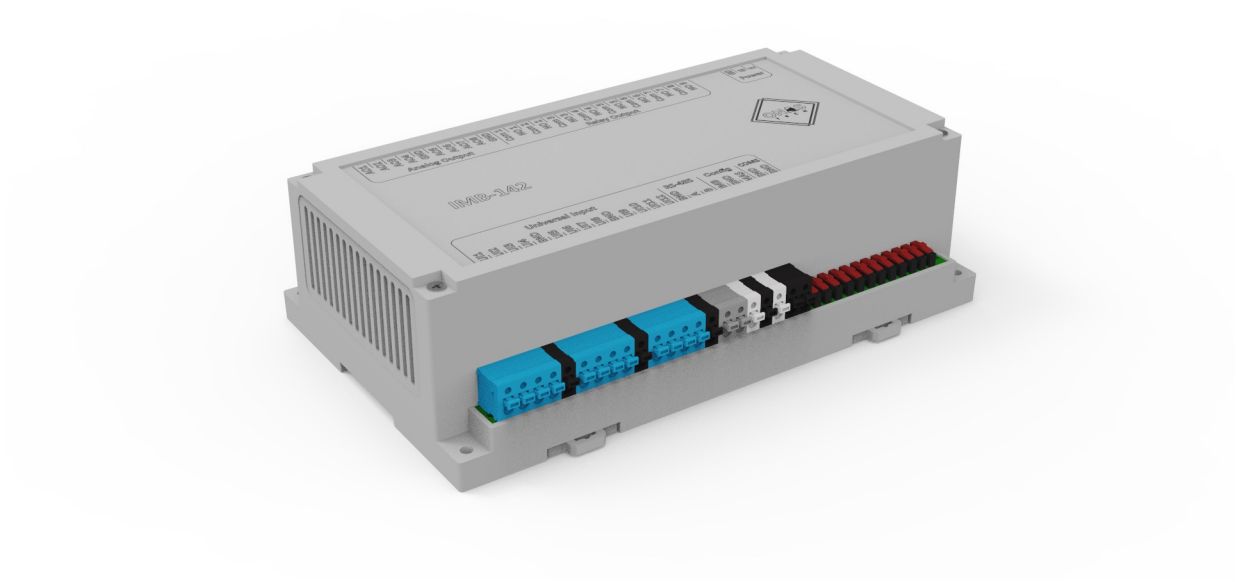
	Power	Universal inputs	Analog outputs
OP-IMB-142	24V AC	12	8
	Communication		Relay outputs
	Modbus RTU		8

Contact us

For all inquiries regarding information and technical support,
we kindly request that you direct your correspondence to our dedicated team.
Our representatives are available to assist you via email at: support@onastech.com

Or visit our website www.onastech.com

We look forward to resolving your inquiries promptly and professionally.



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Technical specifications and availability subject to change without notice.