FACLON LABS

ST-54

Ethernet Gateway

HARDWARE

Reboot Button

Back View

Ethernet Socket

Top View

Reception

Transmission

IP Status

Power

Front View

Socket

Socket Input (Top View)

PWR		RS485		A/DIN		4-20 mA	
+12V	GND	D+	D-	ADI-1	ADI-2	AI+	AI-
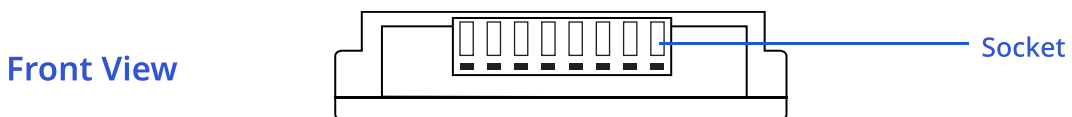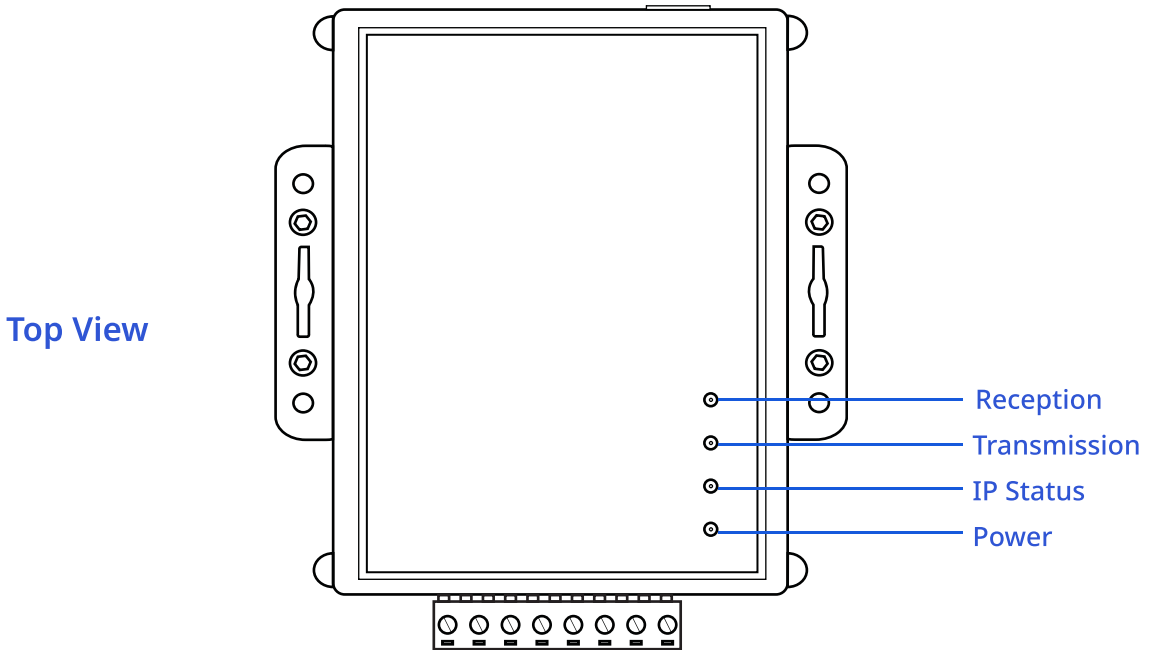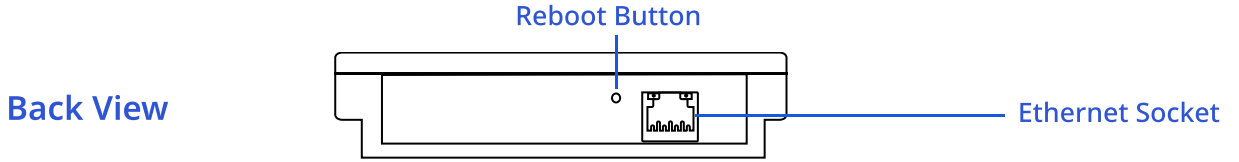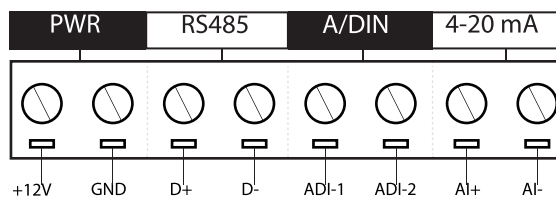
FEATURES

NETWORK

Interface	RJ 45 Ethernet 10 BASE-T or 100 BASE -TX (Auto)
LAN	10/100 Ethernet Half/ Full Duplex (Auto negotiating)
Network protocols	TCP, IPv4, MQTT, HTTP
Connection monitoring	Periodic Reboot, Power Failure, Input/ Output On/Off, Slave Fail
DHCP	Static and dynamic IP allocation

MODBUS

Modbus protocol	Modbus RTU Master
Baud Rate	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Data Bits	7, 8
Parity	None, Odd, Even
Stop Bit	0, 1, 2
Index Count	32 Index
Word Count per Index	100
Max Word Count	1600
Gateway Configuration	Web Config, Serial Utility, IP Commands

DATA TO SERVER

Protocol	Configurable TCP, HTTP, MQTT
Protocol Format	Configurable JSON/CSV Format

SYSTEM CHARACTERISTICS

CPU	ARM® CortexTM-M0Standard operating frequency up to 32 MHz
DataBackup	~5 Days @ 30 seconds interval

PHYSICAL INTERFACES (PORTS, LEDS, BUTTONS)

Ethernet	1 x RJ45 port, 10/100 Mbps
I/Os	1 Channel (0 to 24V) Power Supply 1 Channel (0 to 24V) Modbus RS-485 2 Channel (0 to 24V) Analog / Digital Input 1 Channel (4 to 20mA) Current Input
Serial Programming Interface	USB to DB9 Connector / Device Configuration via Utility
Status LEDs	1x Power LED 1 x IP LED 2 x Modbus Communication Status
Power	12V to 24V DC (Reverse Polarity Protection)
RS485 Port	upto 32 Modbus Slave Device Connection
LAN Port	DataTransfer to Cloud

PHYSICAL SPECIFICATION

Casing material	Plastic Polymer
Dimensions (W x H x D)	100 mm x 85 mm x 24 mm (L x W x H)
Weight	160 grams
Mounting options	Wall Mount, Flat surface, Bottom DIN rail

OPERATING ENVIRONMENT

Operating Voltage	12V - 24V DC
Supply Current	60 mA @12V DC (~0.8W - Idle), (~1.7W - Transmission)
Operating temperature	Operating: -30C to +85C
Ingress Protection Rating	IP60

What's in the box ?

Standard package contain

- ST-54 (Ethernet Gateway)
- 24 W Adapter
- Lan Cable 1 Mtr (Optional)
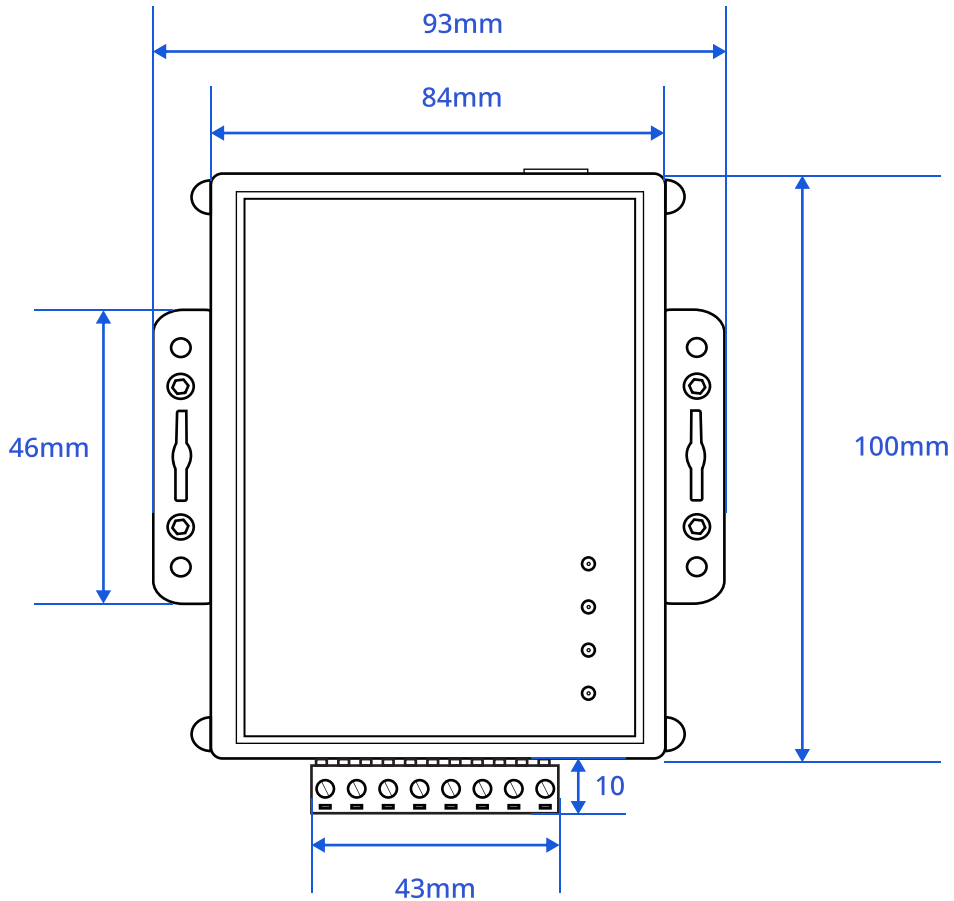- QSG (Quick Start Guide)
- Packaging Box

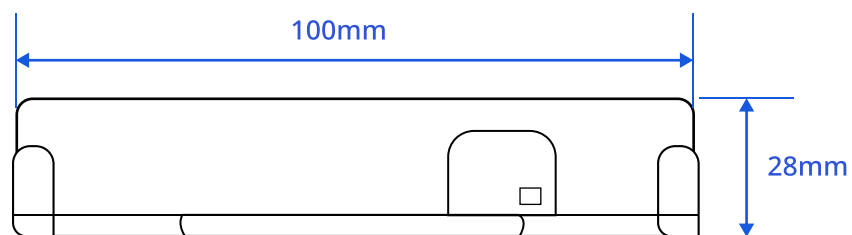|		
ST-54	24 W Adapter	

ST-54 MEASUREMENTS

TOP VIEW

The figure below depicts the measurements of ST-54 and its components as seen from the top:
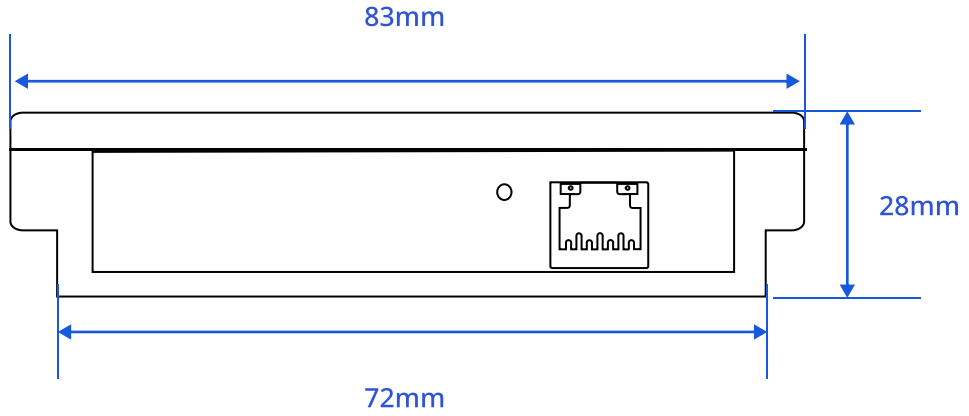

RIGHT VIEW

The figure below depicts the measurements of ST-54 and its components as seen from the right side
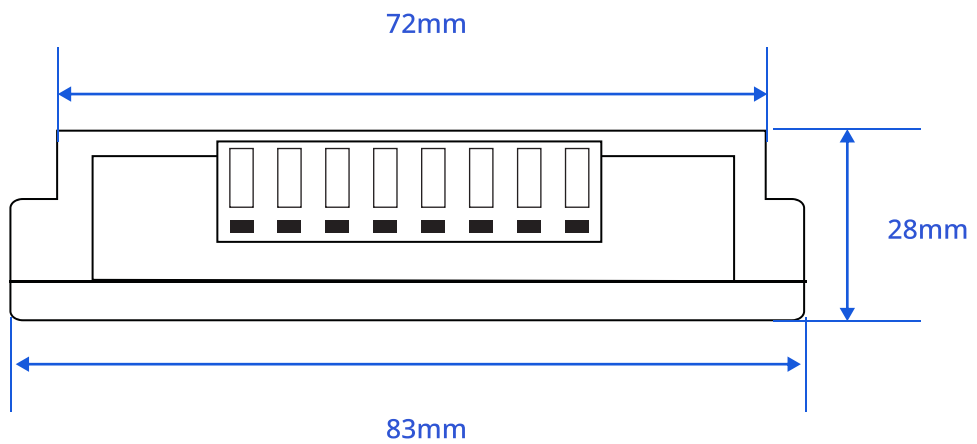
REAR VIEW

The figure below depicts the measurements of ST-54 and its components as seen from the back:

FRONT VIEW

The figure below depicts the measurements of ST-54 and its components as seen from the front:

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NOTE - We pursue a policy of continous research and development.
Specifications and features are subject to change without notice