



The **Energy** Management Platform Installation Guide - Analog Sensors

Internet of Things

Solar Energy



Table of Contents

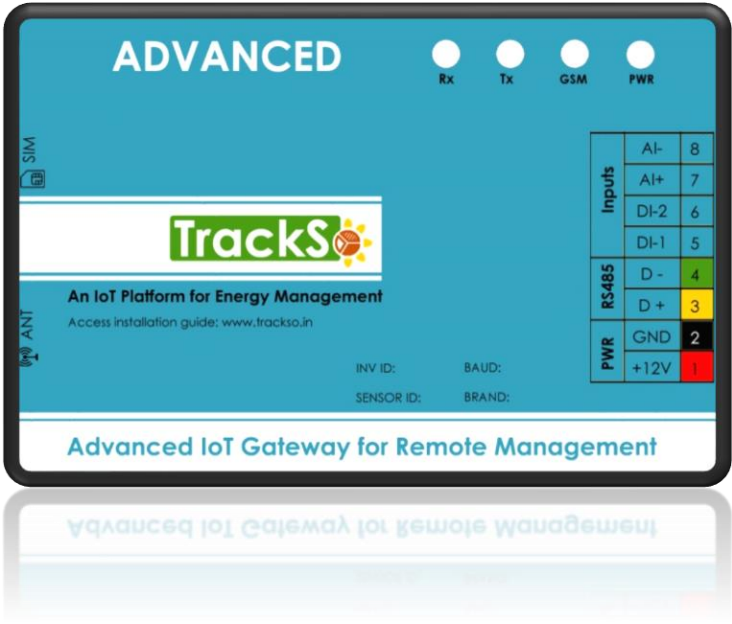
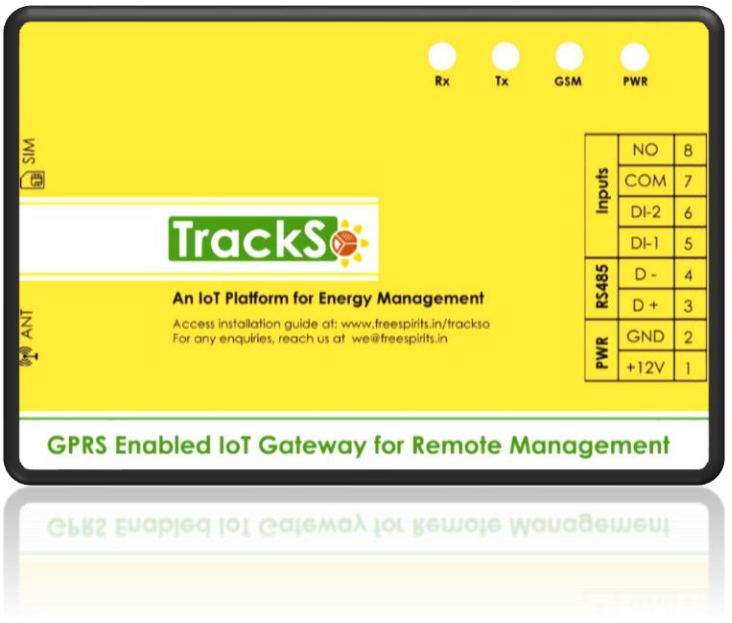
Introduction.....	3
Data Loggers.....	3
Tools and Materials Needed.....	4
Analog Sensors (0-5V or 0-10V).....	4
Analog Sensors (4-20ma).....	4

Introduction

This guide explains how to connect any analog sensor with TrackSo Data Loggers or any other data logger. Please follow instructions mentioned in this guide to successfully connect the analog sensor with the data loggers. For physical installation and mounting of sensors, please refer to 'Datasheet & Installation Guide – [sensor_name]' on: www.trackso.in/documentation

Data Loggers

TrackSo offers following data loggers and both have different analog inputs. Following diagram explains the difference between the data loggers and the way to connect sensors to them.

TrackSo ADVANCED Data Logger																				
 <p>The image shows the TrackSo ADVANCED Data Logger interface. It features a blue background with the TrackSo logo and the text 'An IoT Platform for Energy Management'. Below the logo, there is a table for pin configurations:</p> <table border="1" data-bbox="690 693 803 945"> <tr> <td rowspan="4">Inputs</td> <td>AI-</td> <td>8</td> </tr> <tr> <td>AI+</td> <td>7</td> </tr> <tr> <td>DI-2</td> <td>6</td> </tr> <tr> <td>DI-1</td> <td>5</td> </tr> <tr> <td rowspan="2">RS485</td> <td>D -</td> <td>4</td> </tr> <tr> <td>D +</td> <td>3</td> </tr> <tr> <td rowspan="2">PWR</td> <td>GND</td> <td>2</td> </tr> <tr> <td>+12V</td> <td>1</td> </tr> </table> <p>Other labels on the interface include 'Rx', 'Tx', 'GSM', 'PWR', 'SIM', 'ANT', 'INV ID:', 'BAUD:', 'SENSOR ID:', and 'BRAND:'.</p>	Inputs	AI-	8	AI+	7	DI-2	6	DI-1	5	RS485	D -	4	D +	3	PWR	GND	2	+12V	1	<p>Pin No. 5,6 – Used to Connect Digital Input or Analog Sensor (0-5V)</p> <p>Pin No. 7-8- Used to Connect Analog Sensor (4-20ma)</p>
Inputs		AI-	8																	
		AI+	7																	
		DI-2	6																	
	DI-1	5																		
RS485	D -	4																		
	D +	3																		
PWR	GND	2																		
	+12V	1																		
TrackSo STD Data Logger																				
 <p>The image shows the TrackSo STD Data Logger interface. It features a yellow background with the TrackSo logo and the text 'An IoT Platform for Energy Management'. Below the logo, there is a table for pin configurations:</p> <table border="1" data-bbox="690 1375 803 1627"> <tr> <td rowspan="4">Inputs</td> <td>NO</td> <td>8</td> </tr> <tr> <td>COM</td> <td>7</td> </tr> <tr> <td>DI-2</td> <td>6</td> </tr> <tr> <td>DI-1</td> <td>5</td> </tr> <tr> <td rowspan="2">RS485</td> <td>D -</td> <td>4</td> </tr> <tr> <td>D +</td> <td>3</td> </tr> <tr> <td rowspan="2">PWR</td> <td>GND</td> <td>2</td> </tr> <tr> <td>+12V</td> <td>1</td> </tr> </table> <p>Other labels on the interface include 'Rx', 'Tx', 'GSM', 'PWR', 'SIM', 'ANT', 'Access installation guide at: www.freespirits.in/trackso', and 'For any enquiries, reach us at we@freespirits.in'.</p>	Inputs	NO	8	COM	7	DI-2	6	DI-1	5	RS485	D -	4	D +	3	PWR	GND	2	+12V	1	<p>Pin No. 5,6 – Used to Connect Digital Input or Analog Sensor (0-5V)</p>
Inputs		NO	8																	
		COM	7																	
		DI-2	6																	
	DI-1	5																		
RS485	D -	4																		
	D +	3																		
PWR	GND	2																		
	+12V	1																		

Tools and Materials Needed

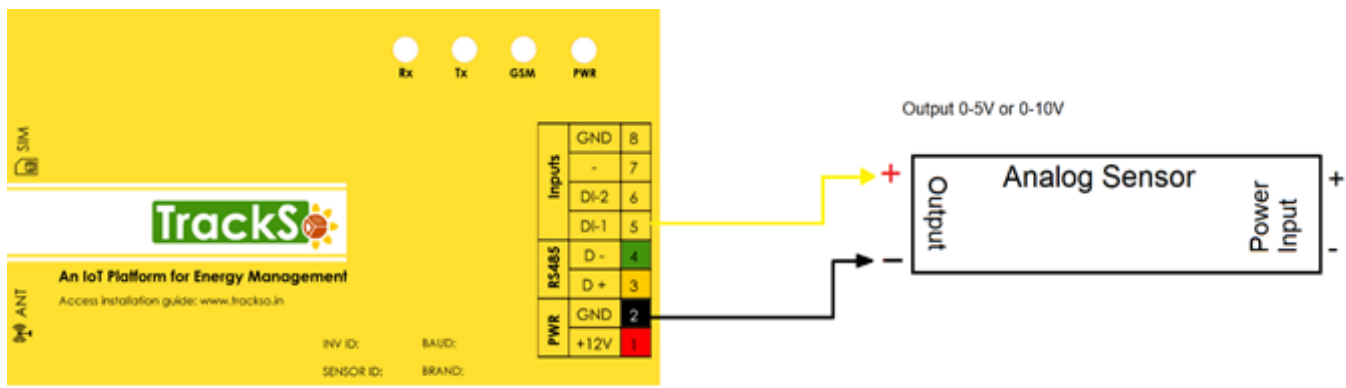
Read this manual before beginning the installation to be sure you have everything you need.

- Wire cutters and stripper
- Multi-meter
- Electrical Tapes to cover the wire
- Wire ties and tabs

Analog Sensors (0-5V or 0-10V)

Connections

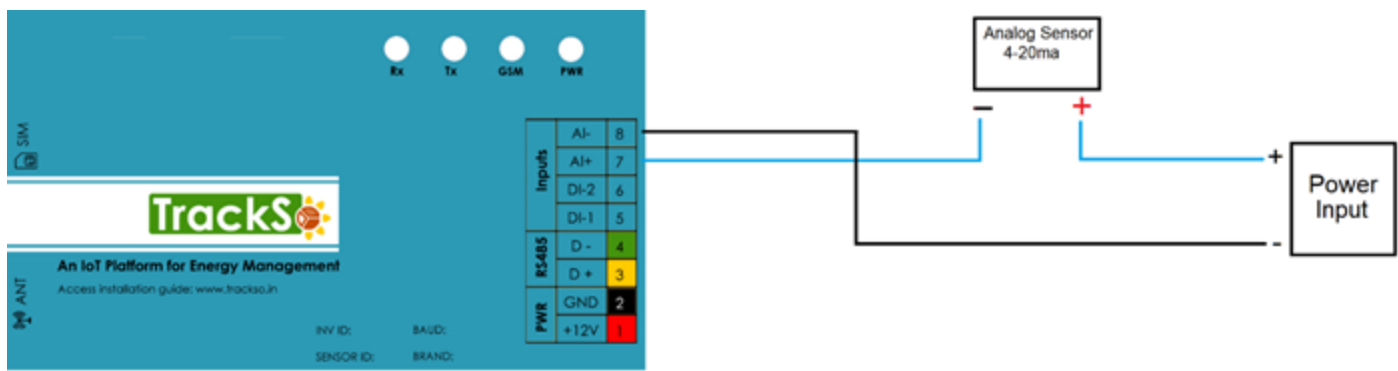
- 1) Connect Output of Sensor across Pin 5 & 2 or Pin 6 & 2.
- 2) Power Sensor as pre mentioned power supply. (Power supply provided to datalogger can be also used to power sensors)



Analog Sensors (4-20ma)

Connections

- 1) Connect Output of Sensor across Pin 7 and 8
- 2) Power Sensor as pre mentioned power supply. (Power supply provided to datalogger can be also used to power sensors)



FREE SPIRITS GREEN LABS PVT. LTD.

WZ 49, 1ST Floor, Budella, Vikas Puri, New Delhi - 110018
GST: 07AACCF3845R1Z3

P: +91 8800606858 | E: sales@trackso.in

4000+

UNITS MONITORED Inverters, Sensors, Meters, Water Pumps

1000+

SOLAR SITES rooftop & commercial, solar water pumps, DG sync systems

Our Presence

