Setting Up a Generic Ingress Device on Admin-v2

This document provides step-by-step instructions on how to set up a "Generic ingress Device" on the Admin-v2 platform. This setup is essential for importing sensor data into the system via the API. Follow the steps below to configure your device and start inserting data.

Adding a New Device

1. Navigate to Admin-v2: Log into the Admin-v2 platform using your credentials.
2. Access Devices Section: Click on the "Devices" option in the main menu, then press the "Add Device" button to initiate the setup process.
3. Select Device Type: In the list of available device types, select "Generic Third-Party Device" and click "Next" to proceed.

Generic Third-Party Device

4. Enter Device Details: Provide a meaningful name for your device and submit the form. This name will help you identify the device later on.

5. Finalise Device Setup: After submitting, you will receive a success message and be directed to a screen displaying your new device. Make sure to note down the MAC address provided, as it is crucial for posting data via the API.
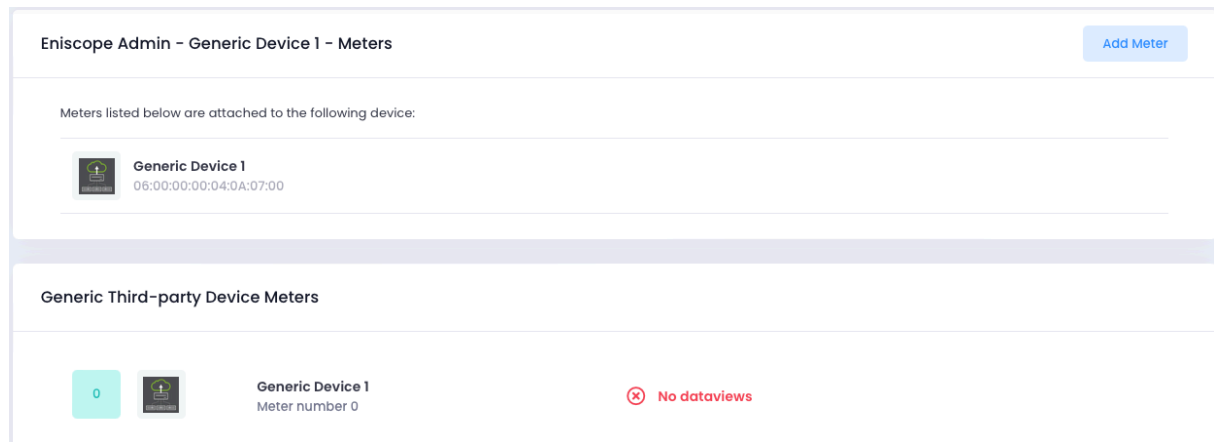
Inserting and Updating Data via API

Please read the API documentation to understand how authentication works.

- Data Insertion: To add new sensor data, use the POST method with the endpoint https://core.eniscope.com/dataingress/generic. This is the preferred method for adding data to ensure system efficiency.
- Data Update: To update existing and incorrect data, use the PUT method with the same endpoint https://core.eniscope.com/dataingress/generic. Remember, the update function should only be used for correcting data, not adding new entries.

Payload Structure

The data payload for the API call should be in JSON format, structured as an array of objects. This allows for multiple "rows" of data to be inserted or updated in a single API call.

Example Payload

```
[
  {
    "ts": 1707836800,
    "uuId": "060000000F000700",
    "period": 60,
    "samples": 1,
    "A12": 43.72565343218188,
    "A13": 0.7187920625874736,
    "AC": 15.924164799938056,
    "AE": 1.6605267774595538,
    "AE1": 58.0281068375465,
    "AE2": 21.036792882269616,
    "AE3": 55.48631677193862,
    "AEr": 98.38190078660003,
    "AEr1": 3.843108706103223,
    "AEr2": 54.0953092528951,
    "AEr3": 94.026905807679,
    "AF": 25.0088909757365,
    "AIN1": 17.712364447169175,
    "AIN2": 19.597619641384863
  }
]
```

Supported Parameters

Ensure you are familiar with the list of supported parameters for your data payload. These parameters are crucial for the system to accurately process the data you submit.

API Field	Label	Type	Unit	Data Type	Notes
ts	Epoch timestamp	counter	seconds	INTEGER	
uuId	BEST Meter Custom Unique Identifier	N/A	N/A	STRING	
period	No of seconds between single (unified) readings	instant	seconds	INTEGER	Minimum = 60 Maximum = 86400 Ignored for PATCH operations
samples	No of unified samples that define this single reading	instant	samples	INTEGER	Optional
AE	Apparent Energy	counter	VAh	DOUBLE PRECISION	
AE1	Apparent Energy 1	counter	VAh	DOUBLE PRECISION	
AE2	Apparent Energy 2	counter	VAh	DOUBLE PRECISION	
AE3	Apparent Energy 3	counter	VAh	DOUBLE PRECISION	
BTU	BTU Absolute	counter		REAL	
C	Count	counter		REAL	
Ct	Time Since Last Pulse	counter	s	REAL	
DI1	Digital Input 1	instant		DOUBLE PRECISION	
DIt1	Time Since Last Input Event 1	instant	s	DOUBLE PRECISION	
DIC1	Digital Input Counter 1	counter		DOUBLE PRECISION	
DI2	Digital Input 2	instant		DOUBLE PRECISION	

DIt2	Time Since Last Input Event 2	instant	s	DOUBLE PRECISION	
DIC2	Digital Input Counter 2	counter		DOUBLE PRECISION	
DI3	Digital Input 3	instant		DOUBLE PRECISION	
DIt3	Time Since Last Input Event 3	instant	s	DOUBLE PRECISION	
DIC3	Digital Input Counter 3	counter		DOUBLE PRECISION	
DI4	Digital Input 4	instant		DOUBLE PRECISION	
DIt4	Time Since Last Input Event 4	instant	s	DOUBLE PRECISION	
DIC4	Digital Input Counter 4	counter		DOUBLE PRECISION	
DI5	Digital Input 5	instant		REAL	
DIt5	Time Since Last Input Event 5	instant	s	REAL	
DIC5	Digital Input Counter 5	counter		REAL	
DI6	Digital Input 6	instant		REAL	
DIt6	Time Since Last Input Event 6	instant	s	REAL	
DIC6	Digital Input Counter 6	counter		REAL	
DI7	Digital Input 7	instant		REAL	
DIt7	Time Since Last Input Event 7	instant	s	REAL	
DIC7	Digital Input Counter 7	counter		REAL	
DI8	Digital Input 8	instant		REAL	
DIt8	Time Since Last Input Event 8	instant	s	REAL	
DIC8	Digital Input Counter 8	counter		REAL	

DO1	Digital Output 1	instant		DOUBLE PRECISION	
DOt1	Time Since Last Output Event 1	instant		DOUBLE PRECISION	
DO2	Digital Output 2	instant		DOUBLE PRECISION	
DOt2	Time Since Last Output Event 2	instant		DOUBLE PRECISION	
DO3	Digital Output 3	instant		DOUBLE PRECISION	
DOt3	Time Since Last Output Event 3	instant		DOUBLE PRECISION	
DO4	Digital Output 4	instant		REAL	
DOt4	Time Since Last Output Event 4	instant		REAL	
DO5	Digital Output 5	instant		REAL	
DOt5	Time Since Last Output Event 5	instant		REAL	
DO6	Digital Output 6	instant		REAL	
DOt6	Time Since Last Output Event 6	instant		REAL	
DO7	Digital Output 7	instant		REAL	
DOt7	Time Since Last Output Event 7	instant		REAL	
DO8	Digital Output 8	instant		REAL	
DOt8	Time Since Last Output Event 8	instant		REAL	
E	Energy	counter	Wh	DOUBLE PRECISION	
E1	Energy 1	counter	Wh	DOUBLE PRECISION	
E2	Energy 2	counter	Wh	REAL	
E3	Energy 3	counter	Wh	REAL	
Ex	Export Energy	counter	Wh	REAL	

Ex1	Export Energy 1	counter	Wh	REAL	
Ex2	Export Energy 2	counter	Wh	REAL	
Ex3	Export Energy 3	counter	Wh	REAL	
M	Mass	counter	g	REAL	
PEC	People Count	counter		REAL	
PIR	PIR Count Value	counter		DOUBLE PRECISION	
PIRt	Time Since Last PIR Count	instant		DOUBLE PRECISION	
RE	Reactive Energy	counter	VArh	DOUBLE PRECISION	
RE1	Reactive Energy 1	counter	VArh	REAL	
RE2	Reactive Energy 2	counter	VArh	REAL	
RE3	Reactive Energy 3	counter	VArh	REAL	
REx	Reactive Energy Export	counter	VArh	REAL	
REx1	Reactive Energy Export 1	counter	VArh	REAL	
REx2	Reactive Energy Export 2	counter	VArh	REAL	
REx3	Reactive Energy Export 3	counter	VArh	REAL	
Ton	On Time	counter	h	BIGINT	
Top	Operating Time	counter	h	BIGINT	
Toff	Off Time	counter	h	BIGINT	
Trun	Run Time	counter	h	BIGINT	
Vol	Volume	counter	m3	DOUBLE PRECISION	
A12	Phase Angle V1 to V2	instant	degrees	REAL	
A13	Phase Angle V1 to V3	instant	degrees	REAL	
AC	Acceleration	instant	m/s	REAL	

AEr	Apparent Energy Relative	instant	VAh	REAL	
AEr1	Apparent Energy 1 Relative	instant	VAh	REAL	
AEr2	Apparent Energy 2 Relative	instant	VAh	REAL	
AEr3	Apparent Energy 3 Relative	instant	VAh	REAL	
AF	Air Flow	instant	m/s	REAL	
AIN1	Analogue Input 1	instant	m/s	REAL	
AIN2	Analogue Input 2	instant	m/s	REAL	
AIN3	Analogue Input 3	instant	m/s	REAL	
AIN4	Analogue Input 4	instant	m/s	REAL	
AIN5	Analogue Input 5	instant	m/s	REAL	
AIN6	Analogue Input 6	instant	m/s	REAL	
AIN7	Analogue Input 7	instant	m/s	REAL	
AIN8	Analogue Input 8	instant	m/s	REAL	
AO1	Analogue Output 1	instant	m/s	REAL	
AO2	Analogue Output 2	instant	m/s	REAL	
AO3	Analogue Output 3	instant	m/s	REAL	
AO4	Analogue Output 4	instant	m/s	REAL	
AO5	Analogue Output 5	instant	m/s	REAL	
AO6	Analogue Output 6	instant	m/s	REAL	
AO7	Analogue Output 7	instant	m/s	REAL	

AO8	Analogue Output 8	instant	m/s	REAL	
AP	Atmospheric Pressure	instant	mBar	REAL	
BTUr	BTU Relative	instant		REAL	
CO	Carbon Monoxide	instant	ppm	REAL	
CO2	Carbon Dioxide	instant	ppm	REAL	
Cr	Pulse Count Relative	instant		REAL	
D	Current THD	instant	%	REAL	
D1	Current THD 1	instant	%	REAL	
D2	Current THD 2	instant	%	REAL	
D3	Current THD 3	instant	%	REAL	
Dmax	Current THD Max	instant	%	REAL	
Dmax1	Current THD 1 Max	instant	%	REAL	
Dmax2	Current THD 2 Max	instant	%	REAL	
Dmax3	Current THD 3 Max	instant	%	REAL	
DICr1	Digital Input Counter 1 relative	instant		REAL	
DICr2	Digital Input Counter 2 relative	instant		REAL	
DICr3	Digital Input Counter 3 relative	instant		REAL	
DICr4	Digital Input Counter 4 relative	instant		REAL	
DICr5	Digital Input Counter 5 relative	instant		REAL	
DICr6	Digital Input Counter 6 relative	instant		REAL	
DICr7	Digital Input Counter 7 relative	instant		REAL	

DICr8	Digital Input Counter 8 relative	instant		REAL	
Er	Energy Relative	instant	Wh	REAL	
Er1	Energy 1 Relative	instant	Wh	REAL	
Er2	Energy 2 Relative	instant	Wh	REAL	
Er3	Energy 3 Relative	instant	Wh	REAL	
Exr	Export Energy Relative	instant	Wh	REAL	
Exr1	Export Energy 1 Relative	instant	Wh	REAL	
Exr2	Export Energy 2 Relative	instant	Wh	REAL	
Exr3	Export Energy 3 Relative	instant	Wh	REAL	
F	Frequency	instant	Hz	REAL	
I	Current	instant	A	REAL	
I1	Current 1	instant	A	REAL	
I2	Current 2	instant	A	REAL	
I3	Current 3	instant	A	REAL	
Imax	Current Max	instant	A	REAL	
Imax1	Current 1 Max	instant	A	REAL	
Imax2	Current 2 Max	instant	A	REAL	
Imax3	Current 3 Max	instant	A	REAL	
In	Neutral Current	instant	A	DOUBLE PRECISION	
Inmax	Neutral Current Max	instant	A	DOUBLE PRECISION	
LL	Light Level	instant	lux	DOUBLE PRECISION	
Mf	Mass Flow	instant	g/h	REAL	
Mfr	Mass Flow Relative	instant	g/h	REAL	
NOX1	Nitrous Oxide 1	instant	ppm	REAL	
NOX2	Nitrous Oxide 2	instant	ppm	REAL	
P	Power	instant	W	REAL	
P1	Power 1	instant	W	REAL	

P2	Power 2	instant	W	REAL	
P3	Power 3	instant	W	REAL	
Pmax	Power Max	instant	W	REAL	
Pmax1	Power 1 Max	instant	W	REAL	
Pmax2	Power 2 Max	instant	W	REAL	
Pmax3	Power 3 Max	instant	W	REAL	
PE	Percentage	instant	%	REAL	
PECR	People Count Relative	instant		REAL	
PF	Power Factor	instant		REAL	
PF1	Power Factor 1	instant		REAL	
PF2	Power Factor 2	instant		REAL	
PF3	Power Factor 3	instant		REAL	
PFmax	Power Factor Max	instant		REAL	
PFmax1	Power Factor 1 Max	instant		REAL	
PFmax2	Power Factor 2 Max	instant		REAL	
PFmax3	Power Factor 3 Max	instant		REAL	
PIRr	PIR Count Value Relative	instant		REAL	
PM1	Particulate Matter 1	instant	ug/m3	REAL	
PM2	Particulate Matter 2	instant	ug/m3	REAL	
PM3	Particulate Matter 3	instant	ug/m3	REAL	
PM4	Particulate Matter 4	instant	ug/m3	REAL	
Pr	Pressure	instant	bar	REAL	
Q	Reactive Power	instant	VAr	REAL	
Q1	Reactive Power 1	instant	VAr	REAL	
Q2	Reactive Power 2	instant	VAr	REAL	
Q3	Reactive Power 3	instant	VAr	REAL	
Qmax	Reactive Power Max	instant	VAr	REAL	

Qmax1	Reactive Power 1 Max	instant	VAr	REAL	
Qmax2	Reactive Power 2 Max	instant	VAr	REAL	
Qmax3	Reactive Power 3 Max	instant	VAr	REAL	
R	Rate	instant	/h	REAL	
RAD	Radon	instant	Bq/m3	REAL	
RES	Resistance	instant	Ohms	REAL	
REr	Reactive Energy Relative	instant	VArh	REAL	
REr1	Reactive Energy 1 Relative	instant	VArh	REAL	
REr2	Reactive Energy 2 Relative	instant	VArh	REAL	
REr3	Reactive Energy 3 Relative	instant	VArh	REAL	
RExr	Reactive Energy Export Relative	instant	VArh	REAL	
RExr1	Reactive Energy Export 1 Relative	instant	VArh	REAL	
RExr2	Reactive Energy Export 2 Relative	instant	VArh	REAL	
RExr3	Reactive Energy Export 3 Relative	instant	VArh	REAL	
RH	Relative Humidity	instant	%	DOUBLE PRECISION	
S	Apparent Power	instant	VA	REAL	
S1	Apparent Power 1	instant	VA	REAL	
S2	Apparent Power 2	instant	VA	REAL	
S3	Apparent Power 3	instant	VA	REAL	

Smax	Apparent Power Max	instant	VA	REAL	
Smax1	Apparent Power 1 Max	instant	VA	REAL	
Smax2	Apparent Power 2 Max	instant	VA	REAL	
Smax3	Apparent Power 3 Max	instant	VA	REAL	
SO	Sound	instant	dB	REAL	
T	Temperature	instant	oC	REAL	
T1	Temperature 1	instant	oC	REAL	
T2	Temperature 2	instant	oC	REAL	
T3	Temperature 3	instant	oC	REAL	
T4	Temperature 4	instant	oC	REAL	
T5	Temperature 5	instant	oC	REAL	
T6	Temperature 6	instant	oC	REAL	
T7	Temperature 7	instant	oC	REAL	
T8	Temperature 8	instant	oC	REAL	
Ti	Internal Temperature	instant	oC	REAL	
Te	External Temperature	instant	oC	REAL	
Tf	Flow Temperature	instant	oC	BIGINT	
Tr	Return Temperature	instant	oC	BIGINT	
Td	Temperature Difference	instant	oC	BIGINT	
U	Voltage (LL)	instant	V	REAL	
U1	Voltage 1 (LL)	instant	V	REAL	
U2	Voltage 2 (LL)	instant	V	REAL	
U3	Voltage 3 (LL)	instant	V	REAL	
Umax	Voltage (LL) Max	instant	V	REAL	
Umax1	Voltage 1 (LL) Max	instant	V	REAL	
Umax2	Voltage 2 (LL) Max	instant	V	REAL	
Umax3	Voltage 3 (LL) Max	instant	V	REAL	

V	Voltage (LN)	instant	V	DOUBLE PRECISION	
V1	Voltage 1 (LN)	instant	V	REAL	
V2	Voltage 2 (LN)	instant	V	REAL	
V3	Voltage 3 (LN)	instant	V	REAL	
Vmax	Maximum System Voltage	instant	V	REAL	
Vmax1	Voltage 1 (LN) Max	instant	V	REAL	
Vmax2	Voltage 2 (LN) Max	instant	V	REAL	
Vmax3	Voltage 3 (LN) Max	instant	V	REAL	
btryVoltage	Battery Voltage	instant	V	DOUBLE PRECISION	
Vf	Volume Flow	instant	m3/h	REAL	
Vfr	Volume Flow Relative	instant	m3/h	REAL	
VOC1	Volatile Organic Compounds 1	instant	ppb	REAL	
VOC2	Volatile Organic Compounds 2	instant	ppb	REAL	
Med	Medium	instant		DOUBLE PRECISION	
Stat	Status	instant		DOUBLE PRECISION	