Product datasheet
Characterstics

SC - Extender
SE-AM-4

4 Channel 0 - 20mA / 4 - 20mA
ADS1115 16 bit ADC

Interface with controller
i2C

Input voltage range upto 36V

Over voltage protection

Programmable Gain Amplifier

Built-in and external antenna options

Main

Range of product	SC - Extender
Product type	Expansion Module
Rated supply voltage	12 - 24V DC
Field of Application	Analog current input
Applicable Devices	Sensoper Smart Controls
Aquisition	0 - 20 mA / 4 - 20mA
ADC Chip	ADS1115
Module Address	I2C - 0x48 / 0x49
Resolution	16bit

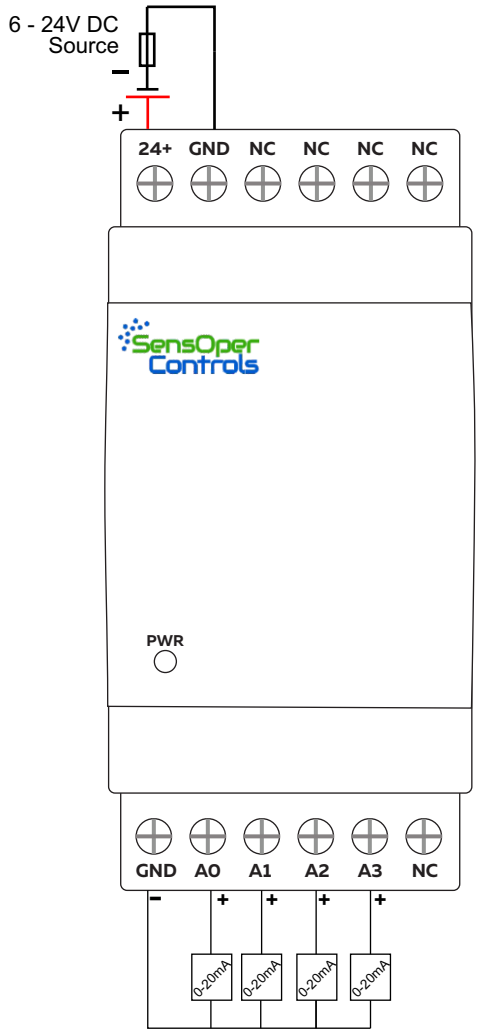
Complementary

Local signalling	1 LED green for PWR
Electrical connection	Removable screw terminal block for inputs and outputs (pitch 5.08 mm)
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715
Height	86.00 mm
Depth	59.00 mm
Width	35.00 mm
Product weight	0.12 Kg

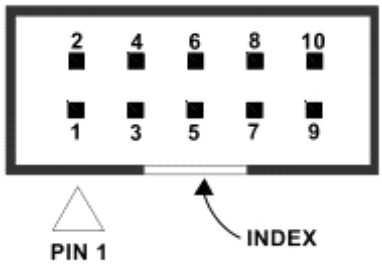
Environment

Relative humidity	10....95% without condensation in operation
IP degree of protection	IP20
Operating altitude	0...2000m
Storage altitude	0...3000m
Shock resistance	15 gn for 11 ms
Operating temperature	-40 to +85 'C

SC - Extender
SE-AM-4



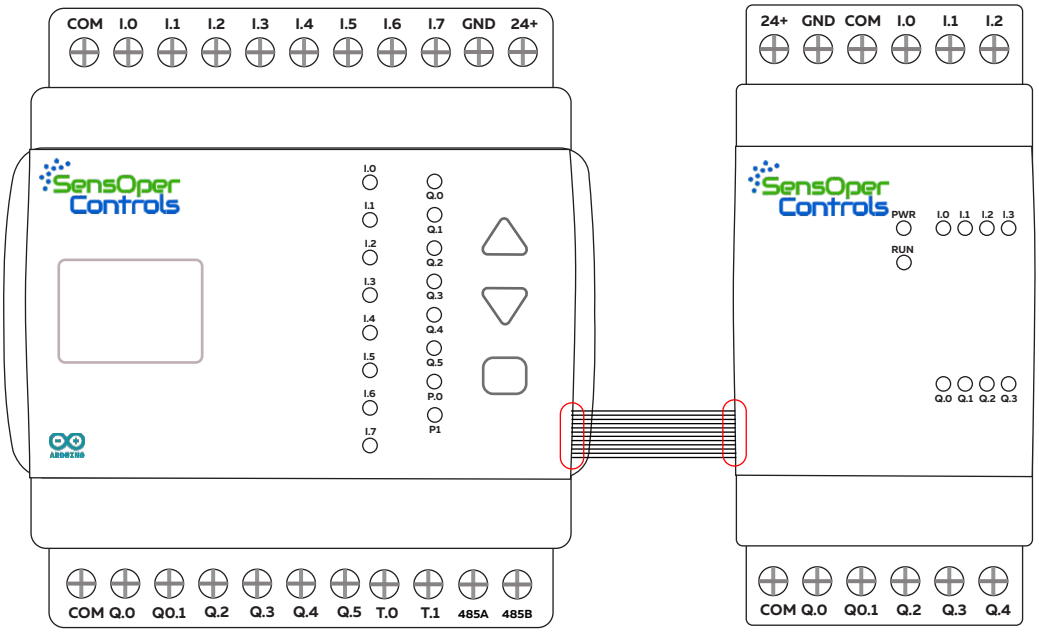
Expansion port pin map



PIN	ESP32 Connection
1	TXD0
2	IO33
3	RXD0
4	Not Connected
5	IO32
6	BOOT IO0
7	SCL IO17
8	Not Connected
9	SDA IO16
10	Ground

SC - Extender

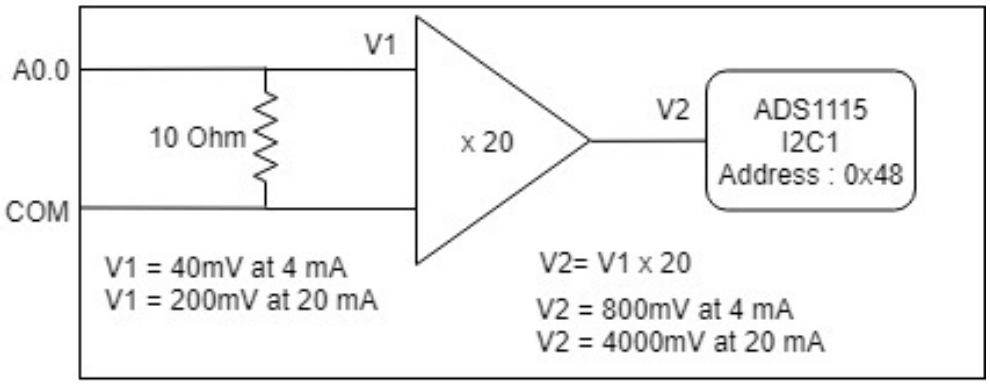
SE-AM-4



Main Controller **Expansion Module**

Main Controller		Analog module
SCL	→	SCL
SDA	→	SDA
GND	→	GND

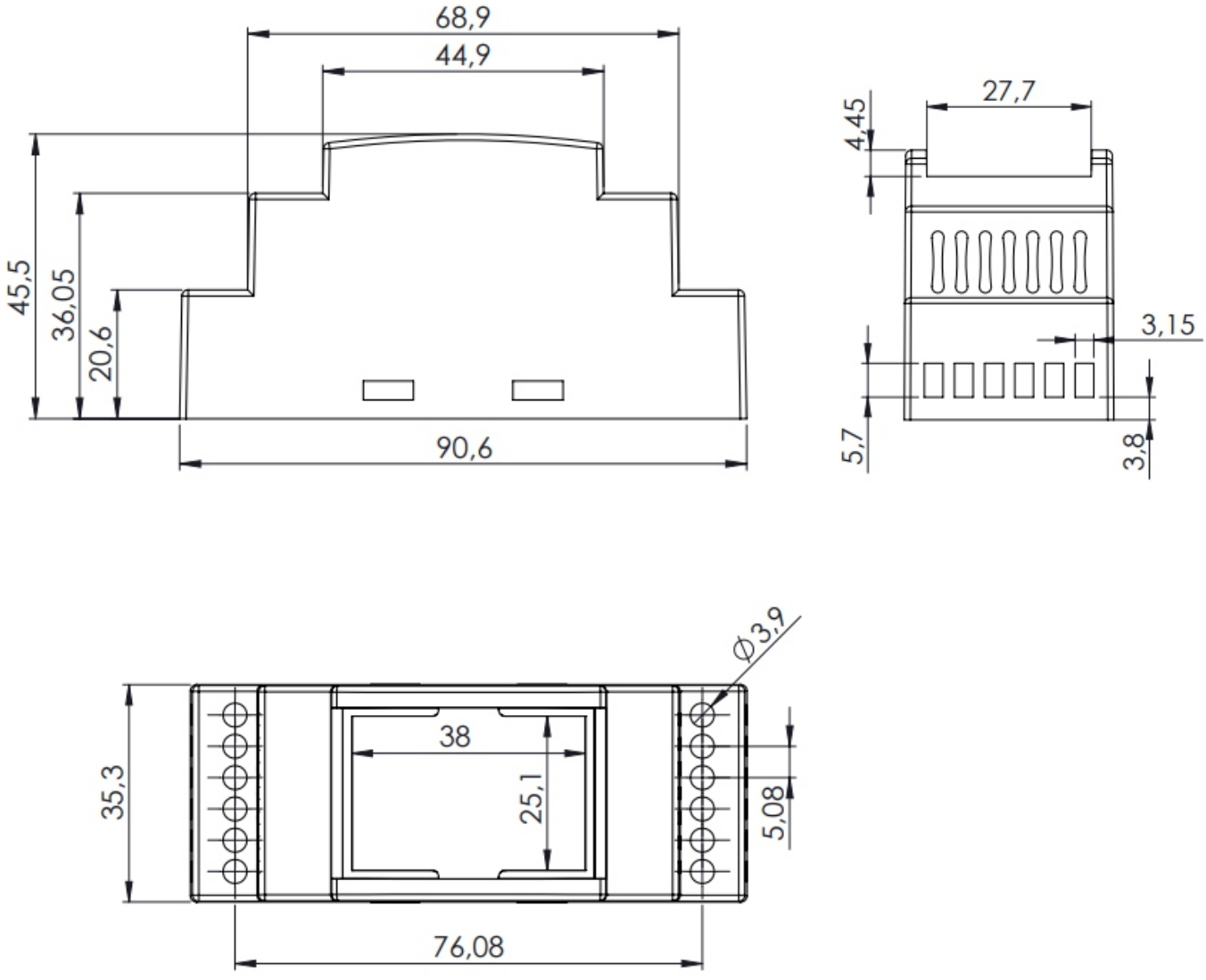
0 - 20mA to 0 to 4V



Analog Module communication

Module Type	ADS1115
Communication	I2C
Module Address	0x48
Command set	Refer datasheet

Dimensions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90,6
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5,7
3,8
Ø3,9
38
25,1
35,3
5,08
76,08

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