

THNO 溫濕度傳感器



Version:1.0

Date:2024/5/31

RD Manager

A handwritten signature in black ink, appearing to read 'Zevin', is written over a white background.

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說明

分離型及一體型溫溼度傳感器,可選配螢幕顯示及 wifi 通訊功能. 若選用螢幕須注意耐溫. 若選用 wifi 版本 IP65 無防水等級

選型

THNO	X	-	X	X	X	X (信號線長)	X (Sensor 線長)
1: 一體型			S: 標準	A: 4~20mA	1: LCD	1: 標準線長 1.5M	0: 無
2: 分離型			H: 高精度	R: RS485	0: 無	2: 特規(最長 5M)	1: 標準線長 1.5M
			X: 結露環境	W: wifi			2: 特規(最長 5M)

電氣規格

Normal version(4-20mA output or RS485)

Power Supply (DCV)	24±0.3
Supply current (mA)	50~100
Storage Temperature(°C)	5 ~ 60(with no condensation or icing)
Operating Temperature(°C)	-30 ~ 85(with no condensation or icing)
Storage Humidity(%)	20 ~ 90(with no condensation or icing)
Operating Humidity(%)	20 ~ 80(with no condensation or icing)

OLED version

Power Supply (DCV)	24±0.3
Supply current (mA)	65~115
Storage Temperature(°C)	5 ~ 60(with no condensation or icing)
Operating Temperature(°C)	-30 ~ 80(with no condensation or icing)
Storage Humidity(%)	20 ~ 90(with no condensation or icing)
Operating Humidity(%)	20 ~ 80(with no condensation or icing)

一、Measurement range

nSens-HT-CSP

Description	nSens-HT-CSP Capacitive humidity and temperature measurement for comfort climate		
Measuring range	Humidity	Ideal 20 ... 80% rH (1-99% rH)	
	Temperature	-20 ... +80°C	
Accuracy incl.reproducibility and hysteresses	Humidity	15 ... 30°C / 20-80%rH 0 ... 50°C / 20-80%rH -20 +80°C / 1-99% rH	typical +/- 1.5% rH typical +/- 2.5% rH typical +/- 4.0% rH
	Temperature	0 ... +65°C -20 ... +80°C	typical +/- 0.3K typical +/- 0.5K
Drift	Humidity	typical 2%/ year	

nSens-HT-EIH

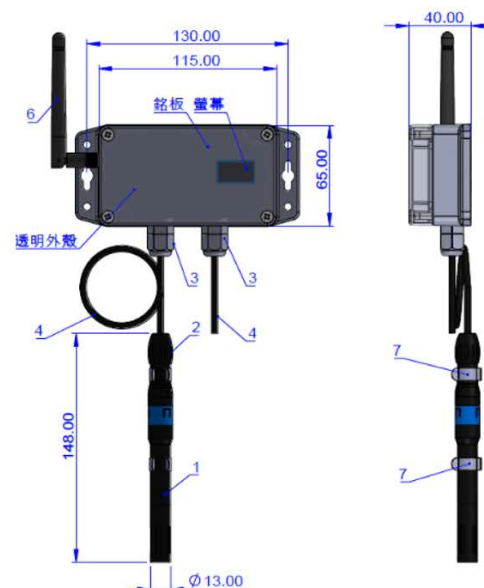
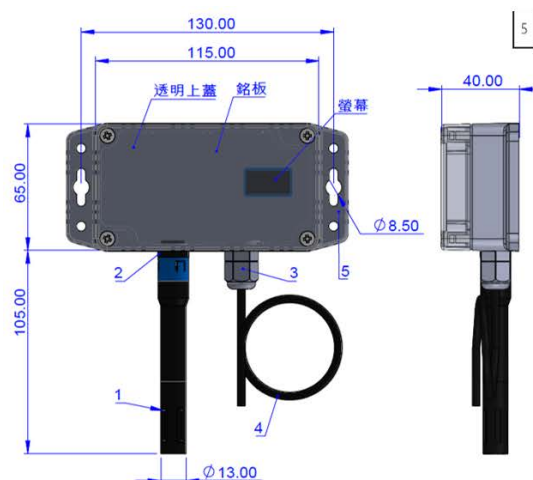
Description	nSens-HT-EIH Electrolytic timidity and NTC temperature measurement		
Measuring range	Humidity	0 ... 100% rH (Ideal for > 75% rH)	
	Temperature	-20 ... +60°C	
Accuracy incl.reproducibility and hystereses	Humidity	15 ... 30°C -20 ... 60°C	Typical +/- 0.8% rH Typical +/- 1.2% rH
	Temperature	0 ... +60°C -20 ... +0°C	Typical +/- 0.2K Typical +/- 0.3K
Drift	Humidity	Typical < 1% / year	

nSens-HT-EIS

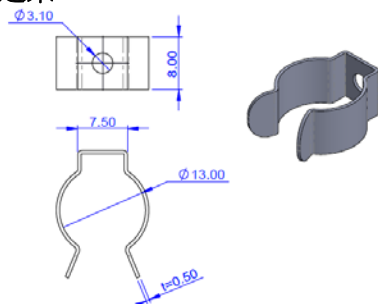
Description	nSens-HT-EIS Electrolytic timidity and NTC temperature measurement		
Measuring range	Humidity	0 ... 100% rH	
	Temperature	-20 ... +80°C	
Accuracy incl.reproducibility and hystereses	Humidity	15 ... 30°C 0 ... 50°C -20 ... 80°C	Typical +/- 0.4% rH Typical +/- 0.8% rH Typical +/- 1.2% rH
	Temperature	0 ... +65°C -20 ... +80°C	Typical +/- 0.1K Typical +/- 0.2K
Drift	Humidity	Typical < 1% / year	

Item	Measuring range	Measurement accuracy
CURRENT OUTPUT ACCURACY (mA)	4 ~ 20	±0.3%

產品結構：



感測器固定架



接線圖：



RS485

白 A+
綠 B-
紅 Vin (12~24V)
黑 Gnd

4~20mA

白 (溫度)
綠 (濕度)
紅 Vin (12~24V)
黑 Gnd