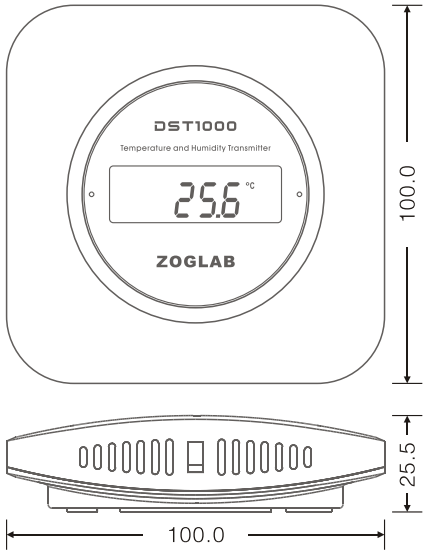
DST1000 温湿度变送器用户指南

ZOGLAB
Your Environment is Our Focus

* 开始使用仪器前，请仔细阅读本手册

DST1000UG1203V001C

· 产品尺寸 ·



单位：mm

· 型号命名 ·

DST1000-AA111

AA：4~20mA电流输出
V1：0~1V电压输出
V5：0~5V电压输出
VV：0~10V电压输出
AR：湿度4~20mA,温度4线PT100输出
VR：湿度0~10V,温度4线PT100 输出
DD：温度湿度485输出

1：摄氏
0：华氏

1：温度量程 0℃~50℃
2：温度量程 -30℃~70℃
3：温度量程 -40℃~60℃

1：带显示
0：不带显示

*温度量程为-40℃~60℃的型号只提供不带显示的机型

· 技术参数 ·

温度量程	0℃~50℃,-30℃~70℃,-40℃~60℃
温度分辨率	0.1℃
温度测量精度	±0.3℃(23℃±2℃),±0.5℃(其他范围)
传感器类型	NTC
湿度量程	0~100%RH
湿度分辨率	0.1%RH
湿度测量精度	±3%(10%~85%),±5%(其它范围)
传感器类型	湿度电容
供电电压	4~20mA (0.02 x R_L+10V)<U_V<30V DC
	0~1V/0~5V 10V DC~30V DC
	0~10V 15V DC~30V DC
工作温度	0℃~50℃,-30℃~70℃(带显示型号)
	-40℃~60℃(无显示型号)
工作湿度	0~100%RH
存储温度	-40℃~85℃
变送类型	2线制 4~20mA,电压输出,RS485
模拟输出	4~20mA R_L<(U_V-10)/0.02< 500Ω
	0~10V -1mA<I_L<1mA
	0~5V -1mA<I_L<1mA
	0~1V -1mA<I_L<1mA
电流功耗	≤4mA(24V DC空载)
数字输出	RS485
防护等级	IP30
外壳材质	ABS+PC(阻燃无毒)
外型尺寸	100.0×100.0×25.5mm
整机重量	80g

· 屏显图示 ·

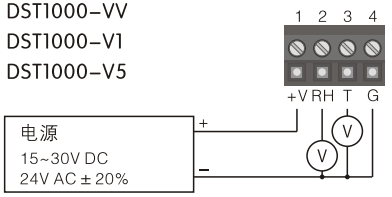
温度显示状态

湿度显示状态

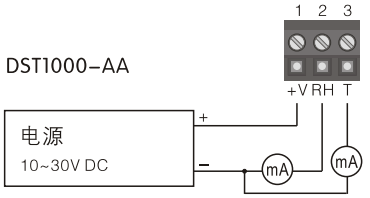
*出厂时默认显示为摄氏温度单位，可根据用户需求设置华氏温度单位。

· 电路连接 ·

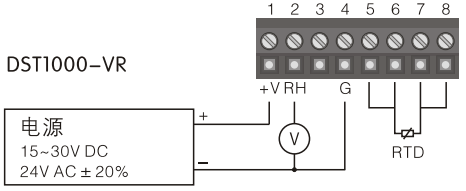
DST1000-VV
DST1000-V1
DST1000-V5



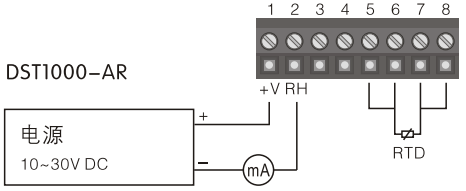
DST1000-AA



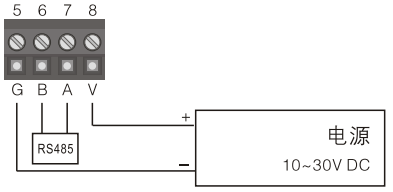
DST1000-VR



DST1000-AR

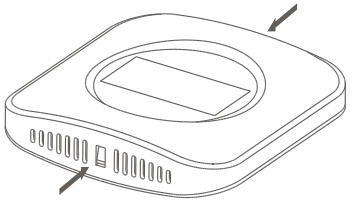


DST1000-DD

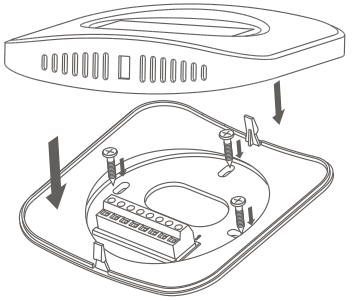


· 安装方式 ·

1.轻按仪器两端的卡扣，将外壳打开。

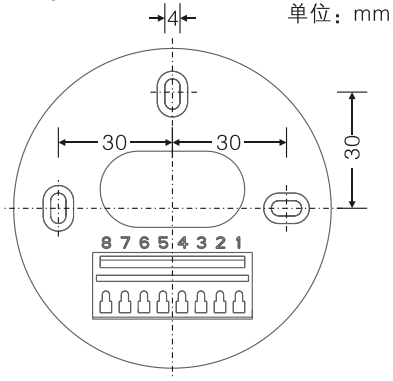


2.使用墙装套件将背盖固定在墙上，然后扣入仪器前盖。



墙装尺寸：

单位：mm



EN61326-1 EN61326-2-3
FCC Part15 B级
外观专利号:201130349840.6

© All Rights Reserved ZOGLAB Microsystem Co.,Ltd

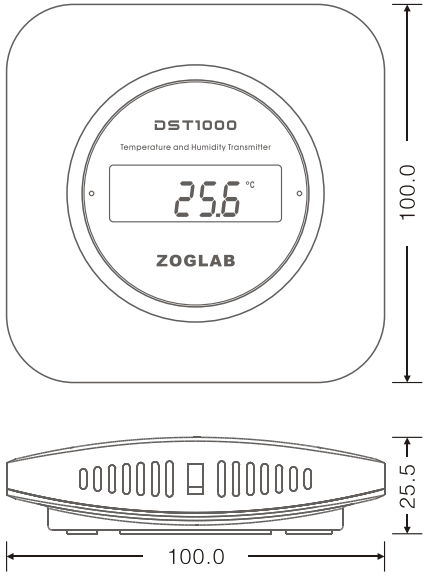
DST1000 Temperature and Humidity Transmitter User's Guide

ZOGLAB
Your Environment is Our Focus

* Please read this guide carefully before using.

DST1000UG1203V001E

· Dimensions(mm) ·



· DST1000 Family ·

DST1000-AA111

AA:4~20mA
V1:0~1V
V5:0~5V
VV:0~10V
AR: Humidity 4~20mA,
temperature PT100 4 wire
VR: Humidity 0~10V,
temperature PT100 4 wire
DD:RS485

1:Celsius
0:Fahrenheit

1:T Measuring range 0℃~50℃
2:T Measuring range −30℃~70℃
3:T Measuring range −40℃~60℃

1:Display
0:No Display

*Temperature range of −40℃~60℃,no display model only.

· Technical Specifications ·

T Measuring Range	0℃~50℃,−30℃~70℃,−40℃~60℃
T Resolution	0.1℃
T Accuracy	±0.3℃(23℃±2℃) ±0.5℃(other range)
T Sensor Model	NTC
H Measuring Range	0~100%RH
H Resolution	0.1%RH
H Accuracy	±3%(10%~85%), ±5%(other range)
H Sensor Model	Capacitive sensor
Power Supply	4~20mA (0.02 x R_L+10V)<U_V<30V DC 0~1V/0~5V 10V DC~30V DC 0~10V 15V DC~30V DC
Working Temperature	0℃~50℃,−30℃~70℃(Display) −40℃~60℃(No display)
Working Humidity	0~100%RH
Storage Temperature	−40℃~85℃
Transmitter Type	2 wire 4~20mA,Voltage output,RS485
Analog Output	4~20mA R_L<(U_V−10)/0.02< 500Ω 0~10V −1mA<I_L<1mA 0~5V −1mA<I_L<1mA 0~1V −1mA<I_L<1mA
Power Consumption	≤4mA(24V DC)
Digital Output	RS485
IP Level	IP30
Housing	ABS+PC,flame−retardant,toxicity and halogen free
Dimensions	100.0×100.0×25.5mm
Weight	80g

· Display ·

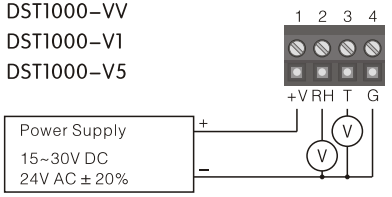
Temperature

Humidity

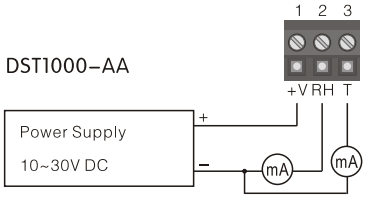
*Temperature displays in Celsius as default ,or set to be Fahrenheit as needed.

· Power Supply Connection ·

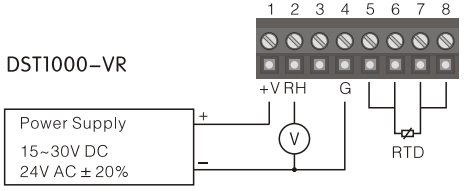
DST1000−VV
DST1000−V1
DST1000−V5



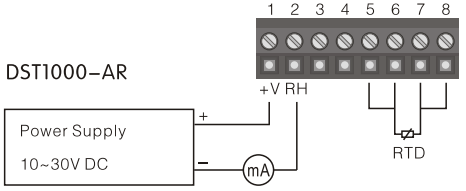
DST1000−AA



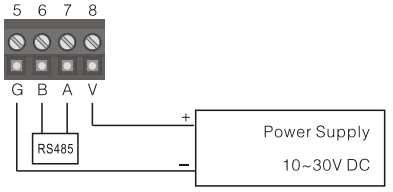
DST1000−VR



DST1000−AR

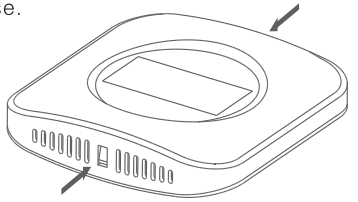


DST1000−DD

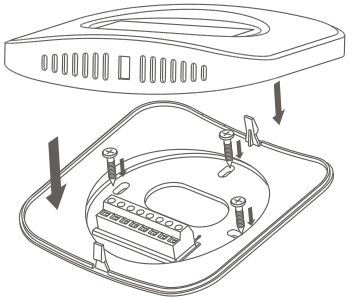


· Mounting ·

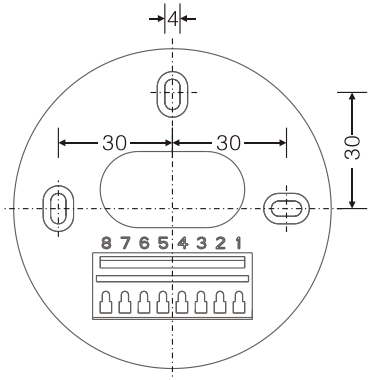
1.Press buckles at the two ends to open the case.



2.Install the back cover on the wall ,then close it with front cover.



Mounting Dimensions(mm):



EN61326−1 EN61326−2−3 FCC Part15 ClassB
Appearance Patent No:201130349840.6

© All Rights Reserved ZOGLAB Microsystem Co.,Ltd