UBIBOT WS1 DS18B20 Temperature Probe User Guide

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Contents

Product Introduction

DS18B20 Temperature Probe is a stainless steel temperature probe for use in extreme environments.
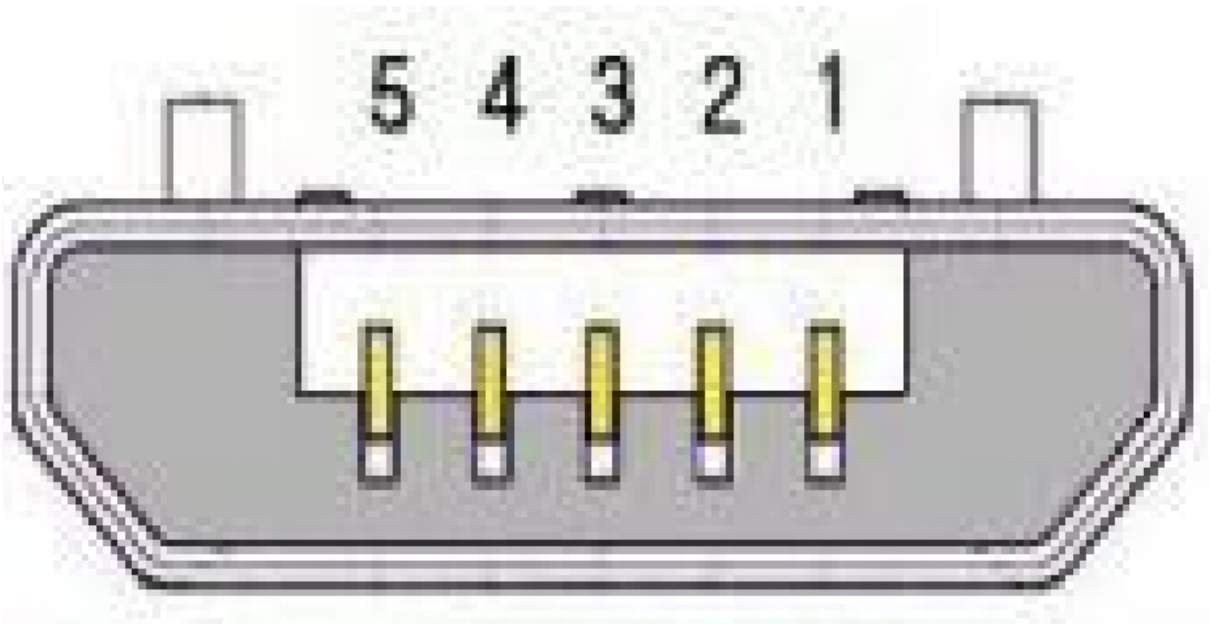

Product Size

Diameter of the metal probe: 6mmLength of the metal part: 31mm

Product Specification

Specification	
Model	UB-DT-P1
Material	Stainless steel
Cable length	3m/5m/Custom-made
Operating Voltage	3/5.5V
Connector	Micro-USB/Custom-made
Internal chip	American DALLAS DS18B20
Measurement range	-55℃ to +125℃
Measurement accuracy	±0.5℃ (in the environment of -55℃ to +125℃)
Protocol	Single Bus protocol
Power Consumption	≤0.1W
Ingress Protection	IP68
Thunder prevention	Level 1
Match with	WS1/WS1 Pro and other UbiBot products

Product Interface Definition

Pin Sequence	Pin Definition
Pin 1	GND
Pin 2	NC
Pin 3	NC
Pin 4	I/O
Pin 5	VCC

Product Working Environment

This product is suitable for indoor and outdoor environments. The recommended operation environmental conditions: -55 to 125°C .

Product Customization Instructions

The DS18B20 probe cable can be customized according to the user's requirements. The external connector of the product can be removed or replaced with other types of connectors. Wecanalsosupport a flat cable. This product is able to match with our UbiBot products, such as WS1/ WS1Pro(WiFi)/WS1Pro(mobile network) /SP1(WiFi)/SP1(mobile network).

Product Applications

This product is suitable for temperature monitorings in these industries: refrigerated truck, pharmaceutical factory GMP monitoring system, telecom airport monitoring, beer manufacturer, smart building , warehouse management, logistics, process temperature monitoring, air conditioning, incubation, animals breeding, greenhouse, freezers and other industires.

Customer Support

www.ubibot.com

Documents / Resources

UBIBOT WS1 DS18B20 Temperature Probe [pdf] User Guide
WS1 DS18B20 Temperature Probe, WS1 DS18B20, Temperature Probe, Probe