

# Industrial LCD T&H transmitter

Model ES-A286



## Main features

- Swiss imported sensors, accurate measurement
- U.S. imported processor chips, reliable measurement
- LCD display, intuitive data display
- IP65 protective housing, suitable for dust, rain and snow harsh environments
- Support wall-mounted or slide rail installation
- IP68 protection level PG7 locking head
- Anti-interference modules to prevent electromagnetic interference

## Compliance

The electromagnetic compatibility in accordance with the following applicable directives:  
 EMC 2014/30/EU  
 Electromagnetic Compatibility  
 EMC 2014/35/EU  
 Electromagnetic Compatibility

## Introduction

ES-A286 LCD temperature and humidity transmitter is a wall-mounted high-end housing with a protection level of IP65, rain and snow proof, good air permeability, and a display function that can display the current temperature and humidity in real time. The circuit uses an industrial-grade microprocessor chip imported from the United States and an imported high-precision temperature sensor to ensure excellent product reliability, high precision, and good interchangeability. This product uses a granular sintered probe sheath, the probe is directly connected to the housing, a variety of probes are optional, and the extended probe line can be extended to 30 meters, with a default of 0.6 meters.

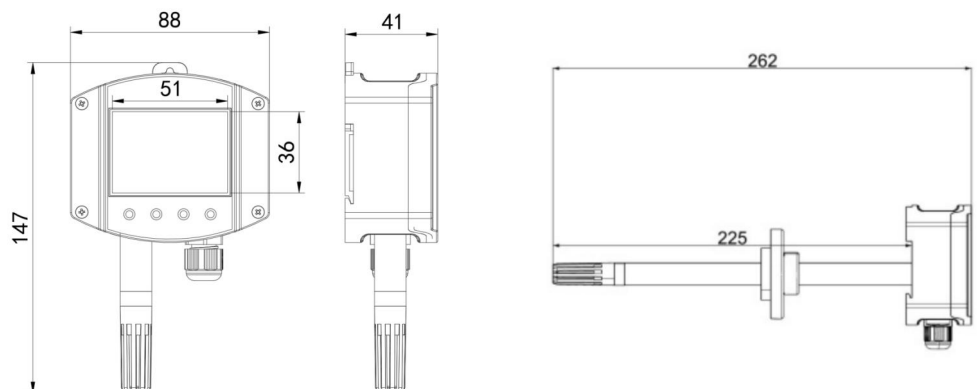
It supports multiple signal outputs of RS485/4-20mA/0-10V/0-5V, the maximum communication distance of RS485 is 2000 meters, standard modbus protocol, and supports secondary development and provides routines for free.

## Application

It is used in agricultural greenhouses, machine room warehouses, factory workshops, underground pipe galleries, industrial automation, logistics and transportation, construction and real estate etc.

## Dimension

Unit:mm



## Specification

DC power supply (default)	10~30V DC	
Power consumption	RS485 output	1.5W, 0.4W
	Voltage output	1.2W
	Current output	1.2W
Range	humidity	0%RH-100%RH
	temperature	-40°C~+120°C, default -40°C~+80°C
Accuracy	humidity	±3% RH (default), ±2% RH (5% RH~95% RH, 25°C)
	temperature	±0.5°C (default), ±0.4°C (25°C)
Resolution	humidity	0.1%RH
	temperature	0.1°C
Long-term stability	humidity	≤1%RH/y
	temperature	≤0.1°C/y
Response time	humidity	≤8s (1m/s wind speed)
	temperature	≤25s (1m/s wind speed)
Signal output	4-20mA/0-10V/0-5V/RS485 output (standard Modbus-RTU protocol)	
Load Capacity	Voltage output ≤250Ω; Current output ≤600Ω	
Transmitter circuit operating	-20°C~+60°C, 0%RH~95%RH (non-condensing)	
Refresh Time	1s	
Installation	Wall-mounted, slide rail installation or pipe fixed	
Allowed max air flow rate	16m/s (pipe fixed)	
IP grade	IP65	

## Order guide

ES-A286	temperature and humidity sensor		
	CODE	Type	
	A	Without display	
	B	With LCD display	
	C	Pipe type without display	
	D	Pipe type with LCD display	
		CODE	Signal output
		1	4-20mA
		2	0-10V
		3	0-5V
		4	RS485
ES-A286	A	4	Order example