

# Smart Dupline® Analog Input Module Type SHPINT1P1

CARLO GAVAZZI



- 1 x Thermistor 10K3 input
- 1 x Variable resistor 1-11 KΩ input
- Bus-powered
- Small dimension housing for decentralized installation inside wall-box or environmental sensor housings

## Product Description

SHPINT1P1 is an input module with 2 analog inputs. The compact size of the module makes it possible to fit it into a wall-box or environmental sensor housing, thereby enabling a decentralized installation concept where the Dupline® bus is multi-dropped from sensor to sensor. This simplifies the wiring to the controller

compared to traditional star wiring connections, reduces the number of DDC's and sub-panels required and provides a higher flexibility for last-minute changes and enhancements. The module has 1 x thermistor 10K3 input and 1 x variable resistor 1-11 KΩ input. It is fully programmable via the SH tool.

## Ordering Key

**SHPINT1P1**

Smart Dupline®  
Decentral  
Input module  
Thermistor Input  
Potentiometer  
Number of inputs

## Type Selection

Input number	Type
2	1 thermistor, 1 resistor

Supplied by Dupline®

SHPINT1P1

## Supply Specifications

Power Supply	Supplied by Dupline®
Power on delay	≤ 2 s
Activated (all inputs)	≤ 1 s

## Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	3.5 mA

## Specifications for Analog inputs

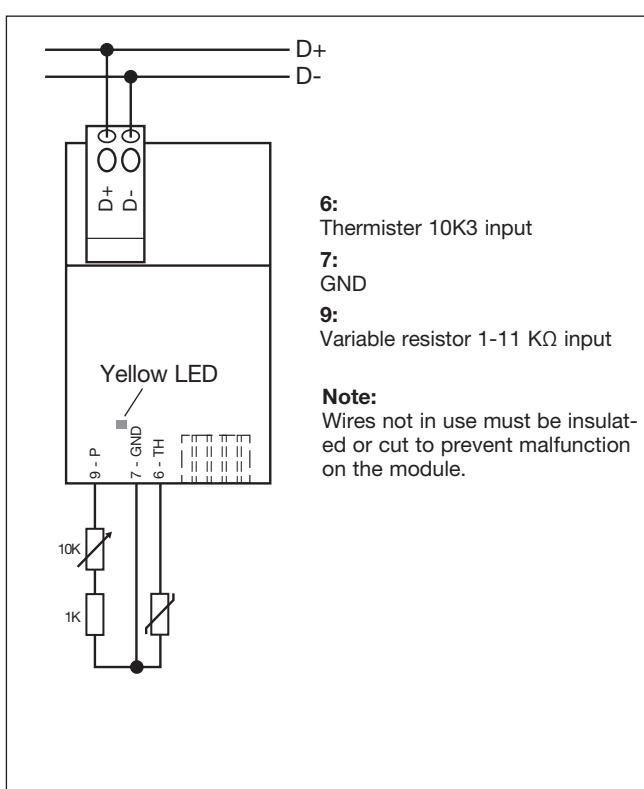
Input 1	
Input type	1 x Thermistor 10K3 Trend standard
Signal range	0 - 50°C
Inaccuracy	< 0.5°C (over entire temp. range)
Cable length	< 5 m
Input 2	
Input type	1 x 1-11 KΩ
Signal range	0 - 100%
Inaccuracy	< 1% (over entire temp. range)
Cable length	< 5 m



## General Specifications

<b>Environment</b>	
Pollution degree	2 (IEC 60664-1, par. 4.6.2)
Operating temperature	0 to +50°C (-4 to +122°F)
Storage temperature	-50 to +85°C (-58 to + 185°F)
<b>Humidity</b> (non-condensing)	
	20 - 90%
<b>Housing</b>	
Material	Macromel
Colour	Ambra
<b>Dimensions</b> (h x w x d)	
	50 x 30 x 18 mm
<b>Weight</b>	
	50 g
<b>Protection degree</b>	
	IP20
<b>Terminal block</b>	
Dupline® bus	2 x spring terminal (double)
Cross-section area	Terminal: 1.5 mm <sup>2</sup>
<b>Cable x 3</b>	
Thermistor input	TH
Signal ground	GND
Variable resistor input	P
Cross-sectional area	0.14 mm <sup>2</sup>
Wire length	0.25 m
<b>Address assignment/ Channel programming</b>	
The address assignment is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be filled in the SH tool.	
<b>Dielectric strength</b>	
Dupline® to signal input	None
<b>EMC</b>	
Immunity	EN61000-6-2
- Electrostatic discharge	EN61000-4-2
- Radiated radiofrequency	EN61000-4-3
- Burst immunity	EN61000-4-4
- Surge	EN61000-4-5
- Conducted radiofrequency	EN61000-4-6
- Power frequency magnetic fields	EN61000-4-8
- Voltage dips, variations, interruptions	EN61000-4-11
Emission	
- Conducted and radiated emissions	CISPR 22 (EN55022), cl.B
- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)
<b>Approvals</b>	
	CE
	cULus according to UL60950

## Wiring Diagram



## Dimensions

