Smart Dupline® Analog Input Module Type SHPINNI2





- 2 x Ni1000 (TK5000)/Pt1000
- Bus-powered
- Input type selectable from SBWEB/SHWEB configuration tools
- Small dimension housing for decentralized installation inside wall-box

Product Description

SHPINNI2 is an input module with 2 x Ni1000/Pt1000 inputs. The compact size of the module makes it possible to fit it into a wall-box or small junction box, thereby enabling a decentralized installation concept where the Dupline® bus is multidropped 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 selection of input type (Ni1000 or Pt1000) and input range to be used is done with the SBWEB/SHWEB configuration tools. Note: The accuracy depends on the input range selected.

Ordering Key Smart Dupline® Decentralized Input module Ni1000/Pt1000 Input Number of inputs

Type Selection

Input number	Туре	Supplied by Dupline®	
2	Ni1000 (TK5000)/Pt1000	SHPINNI2	

Supply Specifications

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

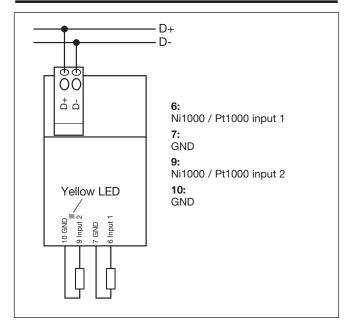
Ni1000 Selected signal range Inaccuracy (-30 to -21°C) Inaccuracy (-20 to 50°C) Inaccuracy (51 to 130°C) Cable length	-30 to 130°C < 1.0°C < 0.5°C < 1.0°C < 5 m	Pt1000 Selected Signal range Inaccuracy (-30 to -21°C) Inaccuracy (-20 to 50°C) Inaccuracy (51 to 130°C) Cable length	-30 to 130°C < 1.0°C < 0.5°C < 1.0°C < 5 m
Ni1000 Selected signal range Inaccuracy (-30 to -21°C) Inaccuracy (-20 to 50°C) Inaccuracy (51 to 130°C) Inaccuracy (131 to 250°C) Cable length	-30 to 250°C < 2.0°C < 0.9°C < 2.0°C < 5.0°C < 5 m	Pt1000 Selected signal range Inaccuracy (-30 to -21°C) Inaccuracy (-20 to 50°C) Inaccuracy (51 to 130°C) Inaccuracy (131 to 250°C) Cable length	-30 to 250°C < 2.0°C < 0.9°C < 2.0°C < 5.0°C < 5 m



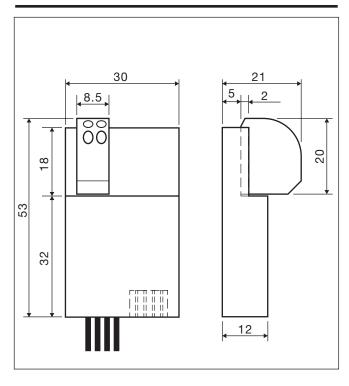
General Specifications

Environment		
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)	
Humidity (non-condensing)	20 - 90%	
Housing		
Material	Macromel	
Colour	Ambra	
Dimensions (h x w x d)	50 x 30 x 18 mm	
Weight	50 g	
Protection degree	IP20	
Terminal block		
Dupline® bus	2 x spring terminal (double)	
Cross-section area	2 x spring terminal (double) Terminal: 1.5 mm ²	
Cable x 4		
6 + 9	Ni1000 (TK5000) input	
7 + 10	GND	
Cross-sectional area	0.14 mm ²	
Wire length	0.25 m	
Address assignment/		
Channel programming	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.	
Dielectric strength		
Dupline® to signal input	None	
EMC		
Immunity	EN61000-6-2	
- Electrostatic disharge	EN61000-4-2	
- Radiated radiofrequency	EN61000-4-3	
- Burst immunity	EN61000-4-4 EN61000-4-5	
SurgeConducted radiofrequency	EN61000-4-5 EN61000-4-6	
- Power frequency magnetic	EN61000-4-6	
fields	EN61000-4-8	
- Voltage dips, variations,	LIVO 1000 4-0	
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)	
Approvals	CE	
	cULus according to UL60950	

Wiring Diagram



Dimensions



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Carlo Gavazzi:
SHPINV2T1P124 SHPINNI2