

# 4201PL 1-10V Analog Adapter

## Manual

## Revision 1.0



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## 2 Product Information

### **2.1** Functional Elements

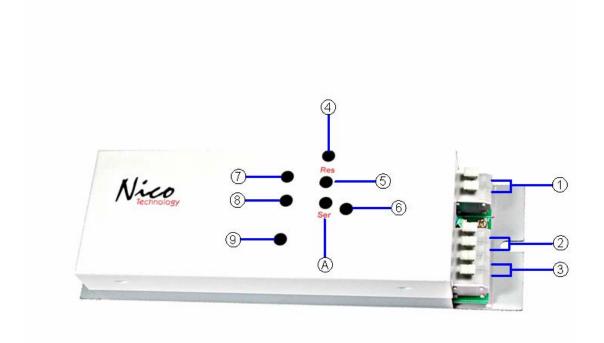


Figure 1.1 4201PL 1-10V Analog Adapter

No	Description
1	Output channel for 1-10VDC signal output
2	Output channel for relay output
3	90~260VAC input power
4	Reset LED indicator
5	Reset button
6	Service pin indicator
7	Band In Use indicator
8	
9	
Α	Service Pin button

## 2.2 Variants and Identifications

#### 4 Device Description

The 4201PL 1-10V Analog Adapter is a electronic ballast PWM output adapter for LonWorks network in automation. Its peripheral scope has been specially designed for the use as fluorescent light controller for device spreading control of applications such as lighting control.

For the use in lighting the the 4201PL 1-10V Analog Adapter realizes one independent output channel with one relay output to control conventional switch.

The LonMark object available per channel flexible use of the the 4201PL 1-10V Analog Adapter; Furthermore there are several timer functions for the operation by switch function. The configuration of the lighting control application is effected via a plug-ln.

Of course, the 4201PL 1-10V Analog Adapter is also freeing programmable in Neuron C. As a flash module is used the application can be load via the LonWorks network, for the detail please direct contact us.

#### **4.1** Hardware Survey

The the 4201PL 1-10V Analog Adapter disposes of one output circuit for each. The output circuit can be controlled individually relay output **8A**@90~260VAC.

#### **4.2** Operation and Display Elements

The 4201PL 1-10V Analog Adapter is fitted with a service button accessible via a small gap on the front panel (see Figure. 1.1, **A**). Activation of the buttons generates a service-pin message transmitted via the LonWorks network. The processor status as well as the service-pin status are displayed by the service LED (figure. 1.1.**6**), which is on while the service button is activated. By use the network management function Wink the service LED flashes.

Furthermore the 4201PL 1-10V Analog Adapter is fitted with a reset LED (figure. 1.1, **6**), displaying the availability of device occur reset. The LED is connection to an I/O pin of the Neuron chip processor.

#### **4.3** Connection Pin Assignment

The following tables show the connector pin assignment of the individual connectors. Connections the 1 marking cf. Figure. 1.1 On previously page. In each clamp block pin 1 is situated on the left. For further wiring information see chapter 3.4.

#### **LonWorks Network Connection**

The LonWorks Power Line can be direct connection to Power Line. Without other equipment, but has to be considered by connecting on the same phase of power line channel



Figure 3.1 Connector pin assignment LonWorks network

### Relay output circuit

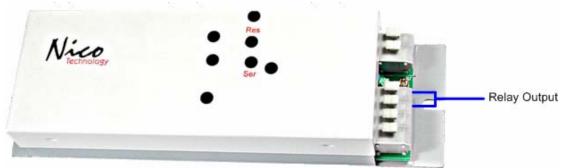
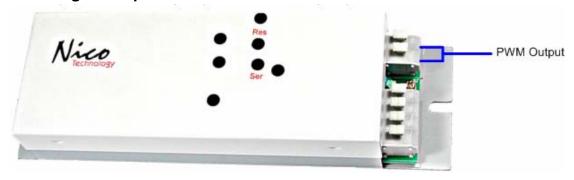


Figure 3.2 Connector pin assignment output circuit.

#### 1-10V signal output circuit



#### **4.4** EMC

The 4201PL 1-10V Analog Adapter is a CE certified device according to the regulation 89/336/EEC for electron magnetic compatibility, modified by 92/31/EEC". Concerning the emission it fulfills classification B (living area) according to EN 55022A/B, EN 55011 A/B and EN 50081-1/2 and, concerning the interference sensibility, classification A (industrial area) according to EN 50082-2.

#### 4.5 Technical Specifications

CPU	Echelon Neuron 3120,10MHz		
Memory	4Kbytes flash EPROM,4Kbytes RAM		
LonWorks Transceiver	PL-3120		
Power supply	90~260VAC		
Power consumption			
Connection	Screw less 2.5mm		
Temperature	Operation	0 ~ +50	
	Storage	-20 ~ +70	
Admitted relative humidity	10 ~ 90%, non condensing		
Dimensions	159 x 27 x 47 mm,		
Mounting	Wall mounting		
Display & Operation	Service-pin and Reset LED indicator and button		
I/O Channels	1 for Relay output channel (max. 8Ampl)		
	1 for 1-10V output channel		

Table 3.1 Technical Specification

#### 4.6 Dimensions



Figure 3.5 Device dimensions without plug-screw clamps