

# Smart Linking Device

## H1 Fieldbus / Ethernet Converter

### Model SLD100

#### OVERVIEW

The smart linking device Model SLD100 is a protocol converter corresponding to the H1 fieldbus specifications of the FOUNDATION™ fieldbus standard. One SLD is inserted into the H1 fieldbus 1 segment to convert variables and data of the Model AVP with FOUNDATION™ fieldbus to be handled in the segment into data that can be handled in Ethernet. Model SLD100 is one product constituting the Valstaff system.

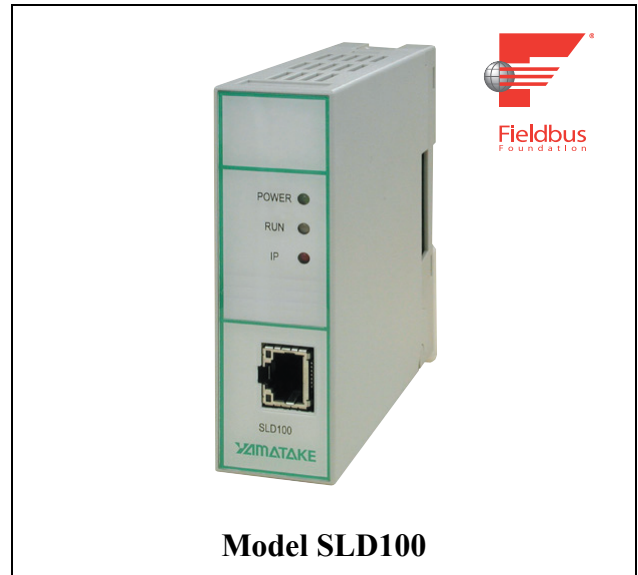
#### FEATURES

##### **Conversion of H1 fieldbus into Ethernet**

Allows Valstaff application installed in a PC in Ethernet to access field device corresponding to the H1 fieldbus. This enables acquiring process variables handled in the Model AVP with FOUNDATION™ fieldbus, sending and receiving configuration/calibration commands of the positioner performed by the Valstaff application applications, and downloading software for the positioner.

##### **Operation in combination with OPC server**

Provides communication via the OPC server.



**Model SLD100**

##### **Implementation of functions necessary for H1 fieldbus network**

Has LAS (Link Active Scheduler) function and PID function block.

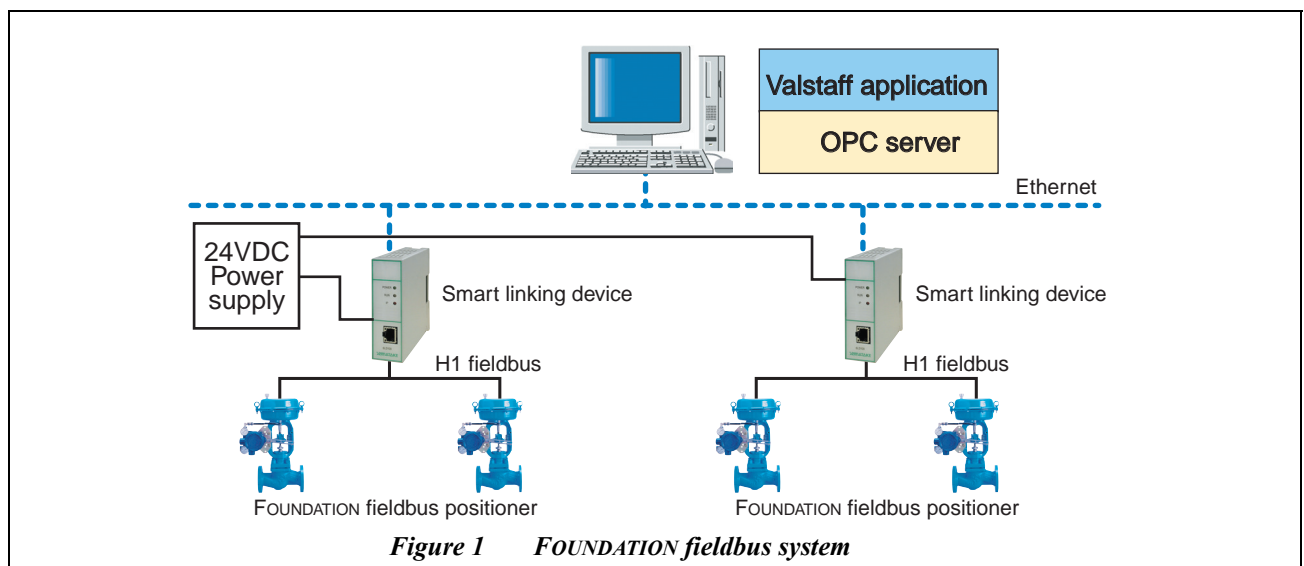
##### **Simple installation**

DIN rail or screw mounts are available for installation.

##### **Compact and light-weight**

A large space is unnecessary for installation.

#### System Configuration



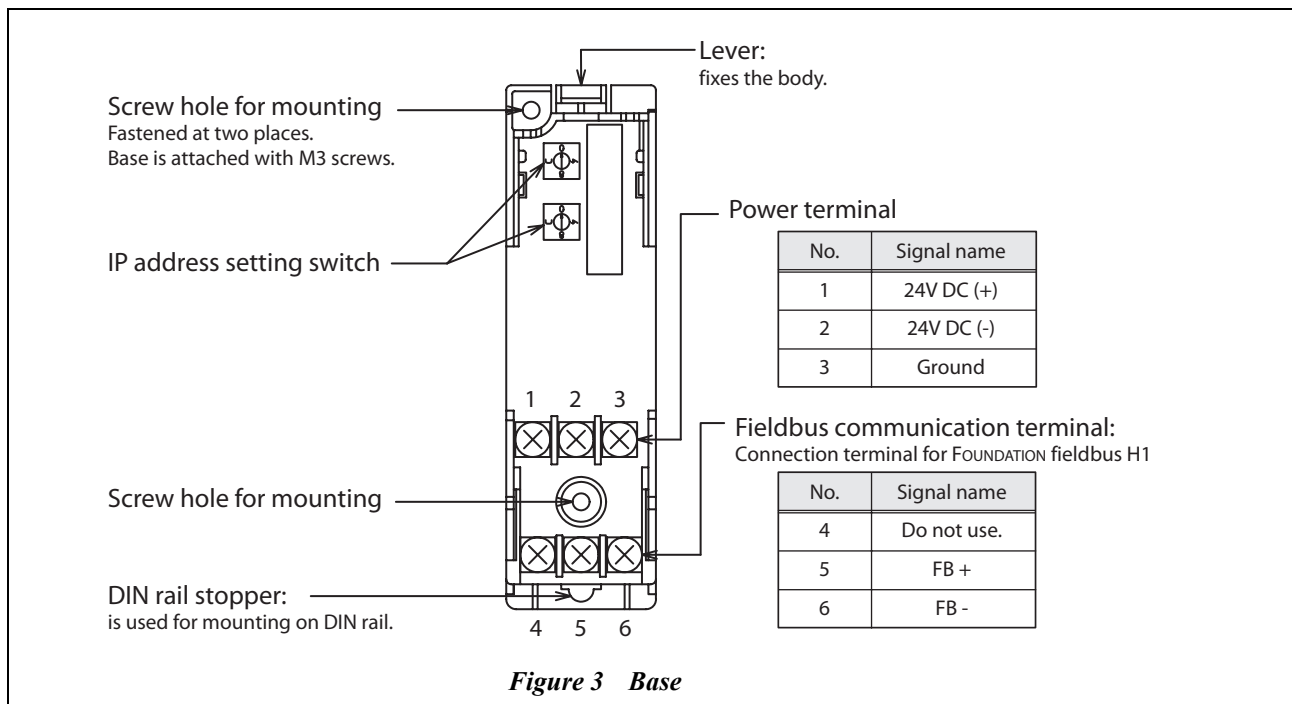
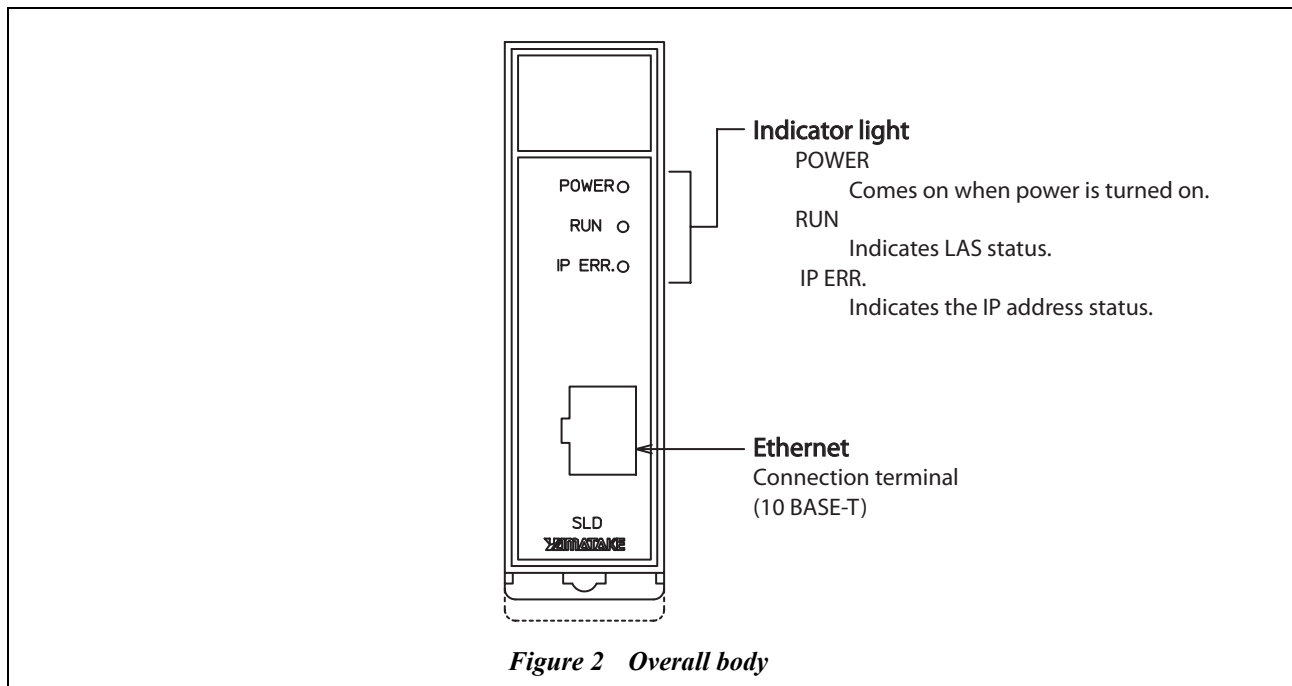
**SPECIFICATIONS**

<b>Communication specification</b>	<b>FOUNDATION fieldbus specification</b>		H1 fieldbus	
			Equipment class: Basic Device (default) or Link Master is switchable.	
			Network parameter	
			- Slot time V (ST): 5-100	
			- Max Response Delay V (MRD): V (ST) × V (MRD) is 20 or more, and V (MRD) is 11 or less.	
			- Min Inter-Pdu delay V (MID): 10 or more (V (MRD) - 1) × V (ST) or less and V (MID) is 120 or less.	
<b>Ethernet specification</b>		Communication port: 10 BASE-T		
<b>General specification</b>	<b>Power specification</b>	<b>Rated voltage</b>	24V DC	
		<b>Operating voltage</b>	20.0V DC to 26.5V DC	
	<b>Power consumption</b>		1.5 W	
	<b>Insulation resistance</b>		<b>Terminals</b>	<b>Regulation of performance</b>
			Ethernet - Ground	100 MΩ or more with 500V DC
			FB - Ground	20 MΩ or more with 25V DC
			Power - Ground	
			Ethernet - FB	100 MΩ or more with 500V DC
			Ethernet - Power	
	FB - Power			
	<b>Dielectric strength</b>		<b>Terminals</b>	<b>Regulations of performance</b>
			Ethernet - Ground	Leakage current of 1 mA or less with 500V AC applied for a minute
			FB - Ground	Leakage current of 2 mA or less with 50V AC applied for a minute
			Power - Ground	
			Ethernet - FB	Leakage current of 1 mA or less with 500V AC applied for a minute
			Ethernet - Power	
	FB - Power			
	<b>Electro Magnetic Compatibility</b>			CE approved for emissions and immunity, EN 61326-1
<b>Operating condition</b>	<b>Ambient temperature</b>		0 to 50°C	
	<b>Humidity</b>		5 to 95% RH	
	<b>Vibration</b>		1 m/s <sup>2</sup> or less	
<b>Transportation and storage conditions</b>	<b>Ambient temperature</b>		-40 to 70°C	
	<b>Humidity</b>		5 to 95% RH	
	<b>Vibration</b>		5 m/s <sup>2</sup> or less	
<b>Material of case</b>		Polycarbonate		
<b>Mass</b>		140 g		
<b>External dimensions (mm)</b>		100 (H) × 30 (W) × 105 (D)		
<b>Certification</b>			Fieldbus Foundation / H1 fieldbus interoperability test ITK4.5	
			OPC Foundation / OPC server	

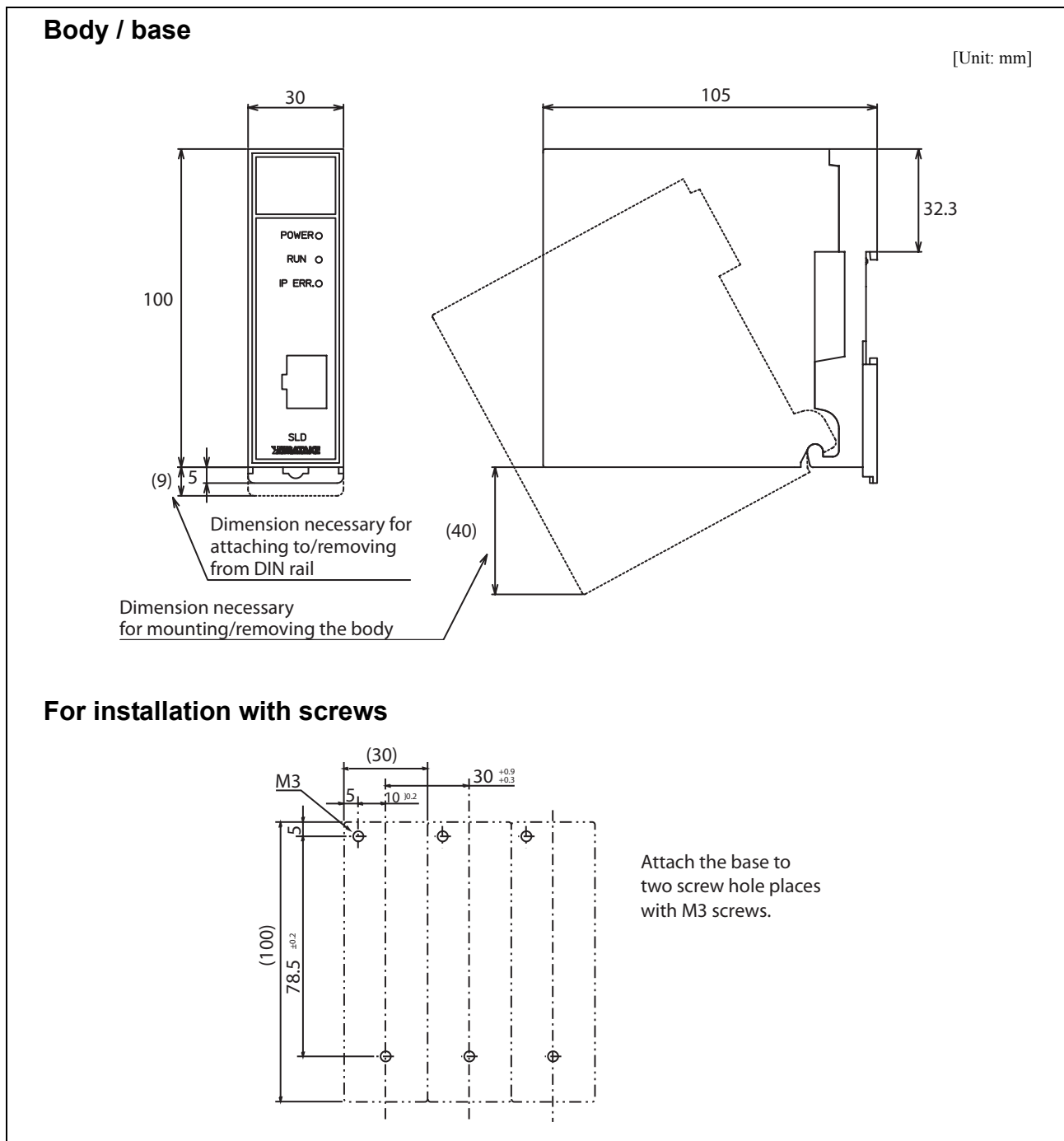
**MODEL SELECTION**

Basic model no.

SLD100 -  X  X  X



**DIMENSIONS**



FOUNDATION is a trademark of Fieldbus Foundation.

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**Savemation**  
*Saving through Automation*

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