



**Model number**

**VBM-CLX-DM**  
AS-Interface Scanner for ControlLogix PLC

**Features**

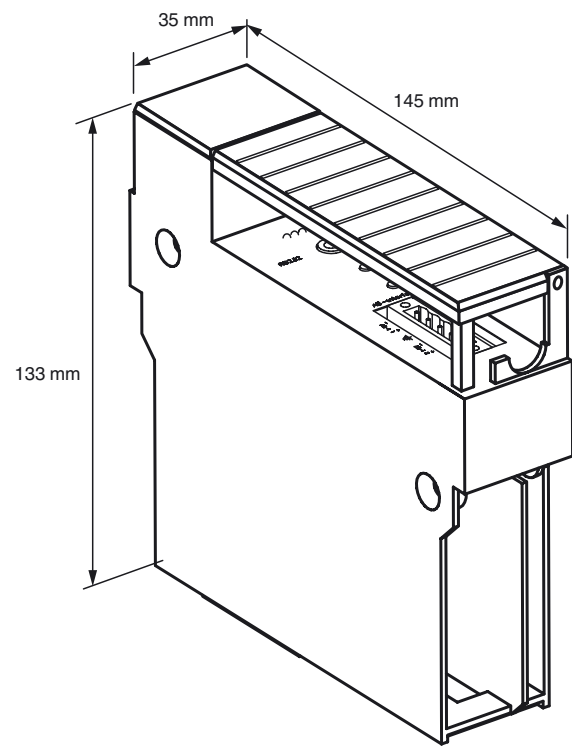
- Gateway compliant with AS-Interface specification 3.0
- 2 AS-Interface networks
- Commissioning, locally on the gateway or via AS-i Control Tools software
- Connects directly to ControlLogix backplane
- Hot Swappable
- Ethernet diagnostic interface
- Can be mounted in the local rack or in a remote EtherNet/IP or ControlNet rack

**Accessories**

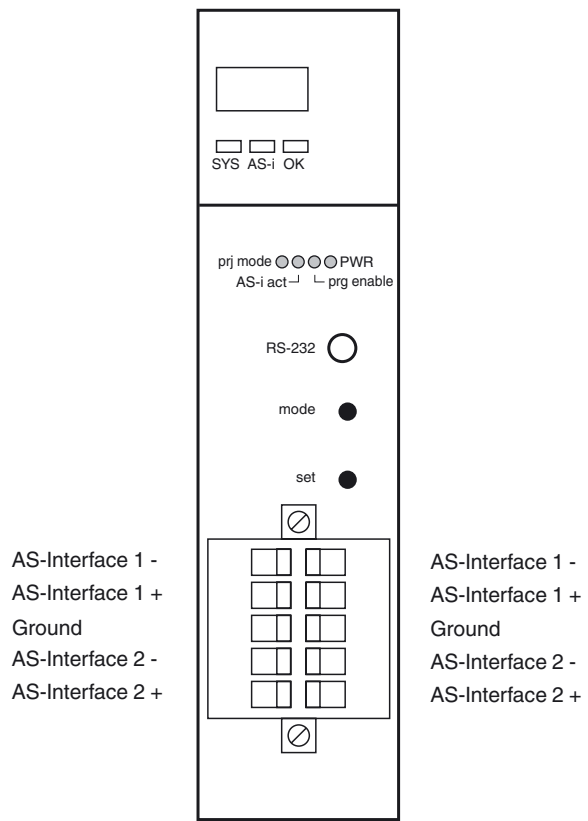
**VAZ-SW-ACT32**  
Full version of the AS-I Control Tools including connection cable

**K-ADP2 RPI**

**Dimensions**



**Electrical connection**



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**Technical data****General specifications**

AS-Interface specification	V3.0
PLC-Functionality	none
Description	AS-Interface Scanner for ControlLogix PLC

**Functional safety related parameters**

MTTF <sub>d</sub>	115 a at 30 °C
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**Indicators/operating means**

Display	LC display
LED SYS	LED green: Power on
LED OK	LED green: AS-Interface network running normally; LED green flashing: Configuration mode; LED red flashing: Peripheral fault; LED red: Configuration error;
LED AS-i ACTIVE	LED green: AS-Interface running normally
LED PWR	LED green: Power on
LED PRJ MODE	project mode active; LED yellow
LED AS-i	LED green: AS-I network running normally; LED green flashing: Configuration mode; LED red flashing: Peripheral fault; LED red: Configuration error
Switch SET	Selection and setting of a slave address
Button MODE	Mode selection PRJ-operation/save configuration/cursor

**Electrical specifications**

Insulation voltage	$U_i$	$\geq 500$ V
Rated operating voltage	$U_e$	from backplane
Rated operating current	$I_e$	70 mA from Network 1 70 mA from Network 2 390 mA from 5.1 V DC, 2 mA from 24 V DC backplane

**Interface**

Protocol	ControlLogix, backplane
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**Interface 2**

Interface type	RS 232, serial
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**Connection**

AS-Interface	double row terminals, removable
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**Ambient conditions**

Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)

**Mechanical specifications**

Protection degree	IP20
Mass	375 g
Construction type	Mounting into backplane of ControlLogix PLC rack

**Compliance with standards and directives**

Standard conformity	
Electromagnetic compatibility	EN 61000-6-2:2005, EN 61000-6-4:2001, EN 50295:1999
AS-Interface	EN 50295
Protection degree	EN 60529
Shock and impact resistance	EN 61131-2

## Notes

## DATA MAPPING – ControlLogix

The ControlLogix-Scanner works with all models.

An example of an RS Logix 5000 screen capture for ControlLogix mapping (slot 1).

Tag Name	Value	Type	Description
ASi_Input	{...}	AB:1756_MODUL	AS-i Input Data, Mailbox In
ASi_Output	{...}	AB:1756_MODUL	AS-i Output Data, Mailbox Out
ASi_Output_Data	{...}	INT[50]	AS-i Output Data, Mailbox Out
ASi_Output_Data[0]	2048	INT	Circuit 1: Flags, Outputs AS-i Slaves 1..3
ASi_Output_Data[0]_0	0	BOOL	C1: AS-i Slave 3, Bit 0
ASi_Output_Data[0]_1	0	BOOL	C1: AS-i Slave 3, Bit 1
ASi_Output_Data[0]_2	0	BOOL	C1: AS-i Slave 3, Bit 2
ASi_Output_Data[0]_3	0	BOOL	C1: AS-i Slave 3, Bit 3
ASi_Output_Data[0]_4	0	BOOL	C1: AS-i Slave 2, Bit 0
ASi_Output_Data[0]_5	0	BOOL	C1: AS-i Slave 2, Bit 1
ASi_Output_Data[0]_6	0	BOOL	C1: AS-i Slave 2, Bit 2
ASi_Output_Data[0]_7	0	BOOL	C1: AS-i Slave 2, Bit 3
ASi_Output_Data[0]_8	0	BOOL	C1: AS-i Slave 1, Bit 0
ASi_Output_Data[0]_9	0	BOOL	C1: AS-i Slave 1, Bit 1
ASi_Output_Data[0]_10	0	BOOL	C1: AS-i Slave 1, Bit 2
ASi_Output_Data[0]_11	1	BOOL	C1: AS-i Slave 1, Bit 3
ASi_Output_Data[0]_12	0	BOOL	C1: AS-i off-line
ASi_Output_Data[0]_13	0	BOOL	C1: LOS-Master-Bit
ASi_Output_Data[0]_14	0	BOOL	C1: switch to ConfigurationMode
ASi_Output_Data[0]_15	0	BOOL	C1: switch to ProtectedMode