Series 9440/15





- Suitable for V0/V1 HART PROFIBUS DP, Modbus RTU
- Supporting system redundancy and optical rings
- Integration in plant asset management systems via ServiceBus and FDT/DTM

WebCode 9440B









9440/15 series CPU & power modules (CPM) for Zone 2 are used for the intrinsically safe supply of power to up to 16 IS1+ I/O modules and to field circuits. RS485 with PROFIBUS DP or Modbus RTU is used for communicating with the automation system. The CPMs support system redundancy and optical rings. A DTM and process bus or service bus are used for asset management integration.

	ATEX / IECEx					
Zone	0	1	2	20	21	22
Ex interface			•		•	•
Installation in			•		•	•

	NEC 505 Class I			NEC 506			
Zone	0	1	2	20	21	22	
Ex interface			•		•	•	
Installation in			•		•	•	

	NEC 500 Class I Class II Class III					s III
Division	1	2	1	2	1	2
Ex interface		•		•		•
Installation in		•		•		•

Selection Table					
Installation	Zone 2 / Division 2				
Protocols	Redundancy	Product Type	Art. No.	PS	Weight kg
Modbus RTU	full redundancy line redundancy	9440/15-01-11-C1198	162188	22	0.610
Profibus DP V0 Profibus DP V1 Profibus DP V1 HART	acc. to PNO full redundancy line redundancy	9440/15-01-11-C1455	203584	22	0.610
	full redundancy line redundancy	9440/15-01-11-C1243	162201	22	0.610

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex nA [ia, ib Gb] IIC T4 Gc
Gas explosion protection ATEX	⑤ II 3 (2) G Ex nA [ia, ib Gb] IIC T4 Gc
Gas explosion protection EAC	2 Ex nA [ia Ga, ib Gb] IICT4 Gc X
Certificates	ATEX (PTB), Brazil (ULB), Canada (CSA), Canada (FM), EAC (STV), IECEx (PTB), Korea (KTL), USA (FM)
Ship approval	ABS, CCS, ClassNK, DNVGL, RINA
Electrical Data	
Transmission distance/rate copper RS485	1200 m at 9.693,75 kbit/s 1000 m at 187.5 kbit/s 400 m at 500 kbit/s 200 m at 1.5 Mbit/s

A4

Fechnical Data		
xiliary Power		
uxiliary power voltage range	20 35 V DC	
Current consumption (without I/O modules)	0.3 A (24 V DC)	
Current consumption (with	Approx. 2.5 A at 24 V DC	
urrent consumption ith 16 I/O modules)	Approx. 4.9 A at 24 V DC	
Power dissipation (without I/O modules)	7.2 W	
Power dissipation per I/O <discret< td=""><td>1 W</td><td></td></discret<>	1 W	
mbient Conditions		
Ambient temperature	-20°C +65°C	
Mechanical Data		
onnection Fieldbus RS485	Sub-D socket 9-pole	
onnection ServiceBus RS485	Sub-D socket 9-pole	
egree of protection IP (IEC 60529)	IP20 connections IP30 modules	
Vidth	96.5 mm	
epth	107 mm	
ength	148 mm	

Accessories and S	pare Parts			
Figure	Description		Art. No.	Weight kg
Cable for PROFIBU	S DP, RS 485, RS485-IS			
	Cable type: Colour (sheath): Application area: Installation outdoors and	BUS 4000-C-PE 2x0,64mm 02YS(St) CY2Y black Outdoor directly in the ground, UV-resistant	105444	0.300
Cable for PROFIBU	S DP, RS485			
	Cable type: Colour (sheath): Application area: Halogen-free, steel wire	02YS(St) CHSH violet Offshore braid armoured cable	209430	-
	Cable type: Colour (sheath): Application area: Standard type for indoor	BUS 4000-C-PVC 2x0,64mm 02YS(St) CY violet Indoor installation	105438	0.300
Sub-D plug + PG int	erface			
	fieldbus-isolating repeate	ne fieldbus or ServiceBus to the CPU & power module Series 9440/15 and er 9185. In be switched on or off. For non-intrinsically safe RS-485.	105715▲	0.001
Fieldbus Isolating R	epeater Series 9185/12			
	For fieldbuses with RS-4 RS-232, RS-422, RS-48 Transmission rate autom Adjustable transmission 24 V AC/DC auxiliary po	n in safe areas or Zone 2 / Div. 2 85 interface. Suitable for PROFIBUS DP, Modbus, R. STAHL service bus. 5 interface with the automation system valtically set with PROFIBUS DP rate (1.2 kbit/s to 1.5 Mbit/s) wer see data sheet for 9185/12 series	227600	0.350
Optical fieldbus isola	ating repeater, Zone 2 / Div. 2			
A Manual Control of the Control of t	For fieldbus via fibre opt Optical ring possible Extensive diagnostic fun Suitable for Profibus DP		160624▲	0.244

Accessories and Span	re Parts		
Figure	Description	Art. No.	Weight kg
Device DTM IS1+ for P	ROFIBUS DP and Ethernet		
DTM O	Parameterization and configuration of the IS1+ system Communicating with HART-compatible field devices Supports all common FDT frame applications (e.g. FieldCare, PactWare™) Condition Monitoring Scan function for automatic topology generation Download at r-stahl.com	-	-
IS1 PCS7 APL field dev	vice library		
CFC SIEMENS	Easy connection of IS1+ modules to the SIEMENS control system PCS7 via PROFIBUS DP. The library contains CFC driver modules created in conformance with PCS7 modules, and documentation in English. HOTLINE support inclusive. Order, processing and support are carried out directly via SIEMENS: function.blocks.industry@siemens.com Hardware/software requirements: SIEMENS PCS7 V7.1 to 8 SP2 and IS1+ CPM 9440/C1455 from V03.45 and GSD from V03.05	-	-