BACnet Protocol Implementation Conformance Statement



Date: Jul 01, 2026
Vendor Name: Schneider Electric
Product Name: PowerLogic™ Intuitive PM7000 Series Power & Energy Meter
Product Model Number:

Model	Digital Inputs	Digital Outputs	Relay Outputs	Tariffs	Accuracy Class
PM7351DUW	2	2	2	16	0.2
PM7252DUW	2	2	2	4	0.5
PM7151DUW	2	2	2	4	0.5
PM7142DUW	1	1	-	2	0.5

Application Software Version: 1.0.31
Firmware Revision: 1.0.1
BACnet Protocol Revision: 25

Product Description: 3-Phase Electrical Energy Meter

The PowerLogic™ PM7000 Series is a compact, panel-mounted energy meter designed for advanced power monitoring in industrial and commercial applications. It delivers Class 0.2S or Class 0.5S accuracy for precise measurement of voltage, current, power, energy, frequency, and power factor.

An intuitive graphical display provides real-time visibility into critical electrical parameters. Built-in power quality analysis, including harmonics and total harmonic distortion (THD), helps identify electrical disturbances. The meter also supports multi-tariff energy monitoring, data logging, and event recording for enhanced energy management.

Flexible communication options such as Modbus Ethernet and BACnet/IP enable seamless integration with building and energy management systems. Designed for reliability and performance, the PM7000 Series empowers organizations to optimize energy efficiency and improve operational decision-making.

BACnet Standardized Device Profiles Supported (Annex L):

☑BACnet Application Specific Controller (B-ASC)

BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DS-COV-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B, NM-FDR-A

Segmentation Capability:

☐Able to transmit segmented messages Window Size N/A
☐Able to receive segmented messages Window Size N/A

Standard Object Types Supported:

Dynamic creation and deletion of objects are not supported for any object type.

Device Object:

Optional Properties Supported: Description, Location, Active_COV_Subscriptions, Local_Date, Local_Time

Writable Properties: Object_Identifier, Object_Name, Location, Description, Apdu_Timeout, Number_of_Apdu_Retries

Analog Input:

Optional Properties Supported: Description, Reliability

Writable Properties: Out_Of_Service, COV_Increment

Object Identifier	Object Name	PM7351DUW	PM7252DUW	PM7151DUW	PM7142DUW
Analog Input, 2000	Time since last meter power up	x	x	x	x
Analog Input, 2004	Meter Operation Timer	x	x	x	x
Analog Input, 2014	Number of phases	x	x	x	x
Analog Input, 2015	Number of wires	x	x	x	x
Analog Input, 2017	Nominal frequency	x	x	x	x
Analog Input, 2025	Number of VTs	x	x	x	x
Analog Input, 2026	VT primary	x	x	x	x
Analog Input, 2028	VT secondary	x	x	x	x
Analog Input, 2029	Number of CTs	x	x	x	x
Analog Input, 2030	CT primary	x	x	x	x
Analog Input, 2031	CT secondary	x	x	x	x
Analog Input, 2700	Active Energy Delvd	x	x	x	x
Analog Input, 2702	Active Energy Rcvd	x	x	x	x
Analog Input, 2704	Active Energy Delvd + Rcvd	x	x	x	x
Analog Input, 2706	Active Energy Delvd - Rcvd	x	x	x	x
Analog Input, 2708	Reactive Energy Delvd	x	x	x	x
Analog Input, 2710	Reactive Energy Rcvd	x	x	x	x
Analog Input, 2712	Reactive Energy Delvd + Rcvd	x	x	x	x
Analog Input, 2714	Reactive Energy Delvd - Rcvd	x	x	x	x
Analog Input, 2716	Apparent Energy Delvd	x	x	x	x
Analog Input, 2718	Apparent Energy Rcvd	x	x	x	x
Analog Input, 2720	Apparent Energy Delvd + Rcvd	x	x	x	x
Analog Input, 2722	Apparent Energy Delvd - Rcvd	x	x	x	x
Analog Input, 3000	Current - Ph A	x	x	x	x
Analog Input, 3002	Current - Ph B	x	x	x	x
Analog Input, 3004	Current - Ph C	x	x	x	x

Analog Input, 3006	Current - Neutral	x	x	x	x
Analog Input, 3008	Current - Ground	x	x	x	x
Analog Input, 3010	Current - Avg	x	x	x	x
Analog Input, 3012	Current Unb - Ph A	x	x	x	x
Analog Input, 3014	Current Unb - Ph B	x	x	x	x
Analog Input, 3016	Current Unb - Ph C	x	x	x	x
Analog Input, 3018	Current Unb - Worst	x	x	x	x
Analog Input, 3020	Voltage - A-B	x	x	x	x
Analog Input, 3022	Voltage - B-C	x	x	x	x
Analog Input, 3024	Voltage - C-A	x	x	x	x
Analog Input, 3026	Voltage - Avg L-L	x	x	x	x
Analog Input, 3028	Voltage - A-N	x	x	x	x
Analog Input, 3030	Voltage - B-N	x	x	x	x
Analog Input, 3032	Voltage - C-N	x	x	x	x
Analog Input, 3036	Voltage - Avg L-N	x	x	x	x
Analog Input, 3038	Voltage Unb - A-B	x	x	x	x
Analog Input, 3040	Voltage Unb - B-C	x	x	x	x
Analog Input, 3042	Voltage Unb - C-A	x	x	x	x
Analog Input, 3044	Voltage Unb - Worst L-L	x	x	x	x
Analog Input, 3046	Voltage Unb - A-N	x	x	x	x
Analog Input, 3048	Voltage Unb - B-N	x	x	x	x
Analog Input, 3050	Voltage Unb - C-N	x	x	x	x
Analog Input, 3052	Voltage Unb - Worst L-N	x	x	x	x
Analog Input, 3054	Active Power - Ph A	x	x	x	x
Analog Input, 3056	Active Power - Ph B	x	x	x	x
Analog Input, 3058	Active Power - Ph C	x	x	x	x
Analog Input, 3060	Active Power - Total	x	x	x	x
Analog Input, 3062	Reactive Power - Ph A	x	x	x	x
Analog Input, 3064	Reactive Power - Ph B	x	x	x	x
Analog Input, 3066	Reactive Power - Ph C	x	x	x	x
Analog Input, 3068	Reactive Power - Total	x	x	x	x
Analog Input, 3070	Apparent Power - Ph A	x	x	x	x
Analog Input, 3072	Apparent Power - Ph B	x	x	x	x
Analog Input, 3074	Apparent Power - Ph C	x	x	x	x
Analog Input, 3076	Apparent Power - Total	x	x	x	x
Analog Input, 3078	Power Factor - Ph A	x	x	x	x
Analog Input, 3080	Power Factor - Ph B	x	x	x	x
Analog Input, 3082	Power Factor - Ph C	x	x	x	x
Analog Input, 3084	Power Factor - Total	x	x	x	x
Analog Input, 3110	Frequency	x	x	x	x

Analog Input, 3144	Power Factor-IEC - Ph A	x	x	x	x
Analog Input, 3146	Power Factor-IEC - Ph B	x	x	x	x
Analog Input, 3148	Power Factor-IEC - Ph C	x	x	x	x
Analog Input, 3176	Power Factor-IEEE - Ph A	x	x	x	x
Analog Input, 3178	Power Factor-IEEE - Ph B	x	x	x	x
Analog Input, 3180	Power Factor-IEEE - Ph C	x	x	x	x
Analog Input, 3192	Power Factor IEC - Total	x	x	x	x
Analog Input, 3194	Power Factor-IEEE - Total	x	x	x	x
Analog Input, 3764	Dmd - Active Power Last	x	x	x	x
Analog Input, 3766	Dmd - Active Power Pres	x	x	x	x
Analog Input, 3768	Dmd - Active Power Pred	x	x	x	x
Analog Input, 3770	Dmd - Active Power Peak	x	x	x	x
Analog Input, 3780	Dmd - Reactive Power Last	x	x	x	x
Analog Input, 3782	Dmd - Reactive Power Pres	x	x	x	x
Analog Input, 3784	Dmd - Reactive Power Pred	x	x	x	x
Analog Input, 3786	Dmd - Reactive Power Peak	x	x	x	x
Analog Input, 3796	Dmd - Apparent Power Last	x	x	x	x
Analog Input, 3798	Dmd - Apparent Power Pres	x	x	x	x
Analog Input, 3800	Dmd - Apparent Power Pred	x	x	x	x
Analog Input, 3802	Dmd - Apparent Power Peak	x	x	x	x
Analog Input, 3812	Dmd - Active Current Ph A Last	x	x	x	x
Analog Input, 3814	Dmd - Active Current Ph A Pres	x	x	x	x
Analog Input, 3816	Dmd - Active Current Ph A Pred	x	x	x	x
Analog Input, 3818	Dmd - Active Current Ph A Peak	x	x	x	x
Analog Input, 3828	Dmd - Active Current Ph B Last	x	x	x	x
Analog Input, 3830	Dmd - Active Current Ph B Pres	x	x	x	x
Analog Input, 3832	Dmd - Active Current Ph B Pred	x	x	x	x
Analog Input, 3834	Dmd - Active Current Ph B Peak	x	x	x	x
Analog Input, 3844	Dmd - Active Current Ph C Last	x	x	x	x
Analog Input, 3846	Dmd - Active Current Ph C Pres	x	x	x	x
Analog Input, 3848	Dmd - Active Current Ph C Pred	x	x	x	x
Analog Input, 3850	Dmd - Active Current Ph C Peak	x	x	x	x
Analog Input, 3860	Dmd - Current Neutral Last	x	x	x	x
Analog Input, 3862	Dmd - Current Neutral Pres	x	x	x	x
Analog Input, 3864	Dmd - Current Neutral Pred	x	x	x	x
Analog Input, 3866	Dmd - Current Neutral Peak	x	x	x	x
Analog Input, 3876	Dmd - Current Average Last	x	x	x	x
Analog Input, 3878	Dmd - Current Average Pres	x	x	x	x
Analog Input, 3880	Dmd - Current Average Pred	x	x	x	x
Analog Input, 3882	Dmd - Current Average Peak	x	x	x	x

Analog Input, 3972	Dmd - Active Power Ph A Last	x	x	x	x
Analog Input, 3974	Dmd - Active Power Ph A Pres	x	x	x	x
Analog Input, 3976	Dmd - Active Power Ph A Pred	x	x	x	x
Analog Input, 3978	Dmd - Active Power Ph A Peak	x	x	x	x
Analog Input, 3988	Dmd - Reactive Power Ph A Last	x	x	x	x
Analog Input, 3990	Dmd - Reactive Power Ph A Pres	x	x	x	x
Analog Input, 3992	Dmd - Reactive Power Ph A Pred	x	x	x	x
Analog Input, 3994	Dmd - Reactive Power Ph A Peak	x	x	x	x
Analog Input, 4004	Dmd - Apparent Power Ph A Last	x	x	x	x
Analog Input, 4006	Dmd - Apparent Power Ph A Pres	x	x	x	x
Analog Input, 4008	Dmd - Apparent Power Ph A Pred	x	x	x	x
Analog Input, 4010	Dmd - Apparent Power Ph A Peak	x	x	x	x
Analog Input, 4020	Dmd - Active Power Ph B Last	x	x	x	x
Analog Input, 4022	Dmd - Active Power Ph B Pres	x	x	x	x
Analog Input, 4024	Dmd - Active Power Ph B Pred	x	x	x	x
Analog Input, 4026	Dmd - Active Power Ph B Peak	x	x	x	x
Analog Input, 4036	Dmd - Reactive Power Ph B Last	x	x	x	x
Analog Input, 4038	Dmd - Reactive Power Ph B Pres	x	x	x	x
Analog Input, 4040	Dmd - Reactive Power Ph B Pred	x	x	x	x
Analog Input, 4042	Dmd - Reactive Power Ph B Peak	x	x	x	x
Analog Input, 4052	Dmd - Apparent Power Ph B Last	x	x	x	x
Analog Input, 4054	Dmd - Apparent Power Ph B Pres	x	x	x	x
Analog Input, 4056	Dmd - Apparent Power Ph B Pred	x	x	x	x
Analog Input, 4058	Dmd - Apparent Power Ph B Peak	x	x	x	x
Analog Input, 4068	Dmd - Active Power Ph C Last	x	x	x	x
Analog Input, 4070	Dmd - Active Power Ph C Pres	x	x	x	x
Analog Input, 4072	Dmd - Active Power Ph C Pred	x	x	x	x
Analog Input, 4074	Dmd - Active Power Ph C Peak	x	x	x	x
Analog Input, 4084	Dmd - Reactive Power Ph C Last	x	x	x	x
Analog Input, 4086	Dmd - Reactive Power Ph C Pres	x	x	x	x
Analog Input, 4088	Dmd - Reactive Power Ph C Pred	x	x	x	x
Analog Input, 4090	Dmd - Reactive Power Ph C Peak	x	x	x	x
Analog Input, 4100	Dmd - Apparent Power Ph C Last	x	x	x	x
Analog Input, 4102	Dmd - Apparent Power Ph C Pres	x	x	x	x
Analog Input, 4104	Dmd - Apparent Power Ph C Pred	x	x	x	x
Analog Input, 4106	Dmd - Apparent Power Ph C Peak	x	x	x	x
Analog Input, 21300	THD Current - Ph A	x	x	x	x
Analog Input, 21302	THD Current - Ph B	x	x	x	x
Analog Input, 21304	THD Current - Ph C	x	x	x	x
Analog Input, 21306	THD Current - Ph N	x	x	x	x

Analog Input, 21308	THD Current - Ph G	x	x	x	x
Analog Input, 21310	thd Current - Ph A	x	x	x	x
Analog Input, 21312	thd Current - Ph B	x	x	x	x
Analog Input, 21314	thd Current - Ph C	x	x	x	x
Analog Input, 21316	thd Current - Ph N	x	x	x	x
Analog Input, 21318	thd Current - Ph G	x	x	x	x
Analog Input, 21320	Total Dmd Distortion	x	x	x	x
Analog Input, 21322	THD Voltage - A-B	x	x	x	x
Analog Input, 21324	THD Voltage - B-C	x	x	x	x
Analog Input, 21326	THD Voltage - C-A	x	x	x	x
Analog Input, 21328	THD Voltage - Avg L-L	x	x	x	x
Analog Input, 21330	THD Voltage - A-N	x	x	x	x
Analog Input, 21332	THD Voltage - B-N	x	x	x	x
Analog Input, 21334	THD Voltage - C-N	x	x	x	x
Analog Input, 21338	THD Voltage - Avg L-N	x	x	x	x
Analog Input, 21340	thd Voltage - A-B	x	x	x	x
Analog Input, 21342	thd Voltage - B-C	x	x	x	x
Analog Input, 21344	thd Voltage - C-A	x	x	x	x
Analog Input, 21346	thd Voltage - Avg L-L	x	x	x	x
Analog Input, 21348	thd Voltage - A-N	x	x	x	x
Analog Input, 21350	thd Voltage - B-N	x	x	x	x
Analog Input, 21352	thd Voltage - C-N	x	x	x	x
Analog Input, 21356	thd Voltage - Avg L-N	x	x	x	x
Analog Input, 65000	Active Energy Delvd (Tariff 1)	x	x	x	x
Analog Input, 65002	Active Energy Delvd (Tariff 2)	x	x	x	x
Analog Input, 65004	Active Energy Delvd (Tariff 3)	x	x	x	
Analog Input, 65006	Active Energy Delvd (Tariff 4)	x	x	x	
Analog Input, 65008	Active Energy Delvd (Tariff 5)	x			
Analog Input, 65010	Active Energy Delvd (Tariff 6)	x			
Analog Input, 65012	Active Energy Delvd (Tariff 7)	x			
Analog Input, 65014	Active Energy Delvd (Tariff 8)	x			
Analog Input, 65016	Active Energy Delvd (Tariff 9)	x			
Analog Input, 65018	Active Energy Delvd (Tariff 10)	x			
Analog Input, 65020	Active Energy Delvd (Tariff 11)	x			
Analog Input, 65022	Active Energy Delvd (Tariff 12)	x			
Analog Input, 65024	Active Energy Delvd (Tariff 13)	x			
Analog Input, 65026	Active Energy Delvd (Tariff 14)	x			
Analog Input, 65028	Active Energy Delvd (Tariff 15)	x			
Analog Input, 65030	Active Energy Delvd (Tariff 16)	x			

Binary Input:

Optional Properties Supported: Description, Reliability

Writable Properties: Out_Of_Service

Object Identifier	Object Name	PM7351DUW	PM7252DUW	PM7151DUW	PM7142DUW
Binary Input, 100000	Digital Input 1	x	x	x	x
Binary Input, 100001	Digital Input 2	x	x	x	
Binary Input, 100009	Digital Output 1	x	x	x	x
Binary Input, 100010	Digital Output 2	x	x	x	
Binary Input, 100017	Relay Output 1	x	x	x	
Binary Input, 100018	Relay Output 2	x	x	x	

Multi State Input:

Optional Properties Supported: Description, Reliability

Writable Properties: Out_Of_Service

Object Identifier	Object Name	PM7351DUW	PM7252DUW	PM7151DUW	PM7142DUW
Multi state Input, 2016	Power System Configuration	x	x	x	x
Multi state Input, 2036	VT Connection Type	x	x	x	x
Multi state Input, 3701	Power Demand Method	x	x	x	x
Multi state Input, 3711	Current Demand Method	x	x	x	x
Multi state Input, 3721	Input Metering Demand Method	x	x	x	x
Multi state Input, 4191	Applicable Tariff Energy Rate	x	x	x	x
Multi state Input, 7274	Digital Input 1 Control Mode	x	x	x	x

Multi state Input, 7298	Digital Input 2 Control Mode	x	x	x	
Multi state Input, 9673	Digital Output 1 Control Mode	x	x	x	x
Multi state Input, 9681	Digital Output 2 Control Mode	x	x	x	
Multi state Input, 9689	Relay Output 1 Control Mode	x	x	x	
Multi state Input, 9697	Relay Output 2 Control Mode	x	x	x	

Network Port:

Optional Properties Supported: Description, Reliability

Writable Properties: FD_BBMD_Address, FD_Subscription_Lifetime

Object Identifier	Object Name	PM7351DUW	PM7252DUW	PM7151DUW	PM7142DUW
Network Port, 1	BACnet IPV4 Port	x	x	x	x

BACnet Data Link Layer Options:

☑ BACnet IP, (Annex J)

Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) ☐ Yes ☑ No

Networking Options:

☐ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
☐ Annex H, BACnet Tunneling Router over IP

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

☑ ISO 10646 (UTF-8) ☐ IBM™/Microsoft™ DBCS ☐ ISO 8859-1
☐ ISO 10646 (UCS-2) ☐ ISO 10646 (UCS-4) ☐ JIS X 0208

Gateway Options:

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

☐ Yes ☑ No