A1800 ALPHA® meter style numbers

Elster has designed the A1800 ALPHA meter based on extensive metering technology and global metering standards knowledge.

Technical details

- IEC 62053 accuracy Class 0.2 %, 0.5 %, and 1.0 %
- UV-protected, polycarbonate, IP54 enclosure
- Wide operating ranges:
  - Voltage: 46 V to 528 V
  - Current: 1 mA to 10 A (CT-connected)
  - Temperature: -40 °C to +85 °C (inside meter)
- Energy plus demand for kWh, kVARh, and kVAh
- Four-quadrant metering for export-import
- Up to 4 tariffs per day for 4 day types
- Up to 12 seasons
- Nonvolatile memory
- Easily replaceable battery located under the terminal cover
- Precision internal clock with backup timekeeping provided by super capacitor and long-life battery
- 16-segment character LCD with optional backlight
- Windows-based software with multi-language support

Advanced features and functions

- Programmable thresholds for TRueQ monitors
- Optional 1 MB extended memory
- Transformer and line loss compensation
- Up to 8 channels of load profile data
- Up to 32 channels of instrumentation profile data
- External power supply support

Visit the A1800 ALPHA meter product page at www.elstersolutions.com for the latest information.

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A1800 ALPHA meter style numbers

Field numbers	1 2	3	4	5	6	7 8	9	10 11
	Z E	**3**	**K**	**F**	**4**	**R 0**	**0**	**L P**
A1800 ALPHA meter								
Service								
3-phase, 3-wire, delta or network		2						
3-phase, 4-wire, wye		3						
Test amps & wiring								
1 A or 5 A (10 A max), transformer rated								
Symmetrical writing			J					
Sequential wiring			K					
5 A (20 A max), transformer rated^								
Sequential wiring			T					
5 A (120 A max), direct connect-rated								
Sequential wiring			N					
Main board & voltage link options								
All meters are 57.7 V to 480 V*								
No main board options (128 KB memory)				F				
Auxiliary power supply only (128 KB memory)				G				
Backlight only (128 KB memory)				J				
Auxiliary power supply with backlight (128 KB memory)				K				
No main board options (256 KB memory)†				L				
Auxiliary power supply only (256 KB memory)				M				
Backlight only (256 KB memory)†				N				
Auxiliary power supply with backlight (256 KB memory)				P				
Internal voltage links (256 KB memory)‡				Q				
External voltage links (256 KB memory)‡				R				
Internal voltage links with backlight (256 KB memory)‡				S				
External voltage links with backlight (256 KB memory)‡				T				
Relays and extended memory								
No relays and no extended memory					0			
2 relays with no extended memory			(A1805 only)		2			
4 relays with no extended memory					4			
Extended memory with no relays					A			
4 relays with extended memory					E			
Communication options					ANSI	DLMS		
Optical port only				A1810	00	C0		
1 port: Internal telephone modem (ITM3)				A1810	D0	CA		
2 ports: RS-232/485§ and ITM3				A1830	RD	CD		
2 ports: RS-232/485§ and RS-232				A1860	RE	CE		
2 ports: RS-232/485§ and RS-485				A1860	RF	CF		
1 port: RS-232/485§				A1830	R0	CR		
2 ports (ACB): RS-232/485¶ and DLT645 over RS-485¶				A1880	R1	C1		
2 ports: RS-232/485¶ and RS-485¶				A1860		C2		
1 port: RS-232/485¶				A1830	R2			
2 ports (ACB): RS-232/485§ and Modbus over RS-485§				A1882	R3			
2 ports (ACB): RS-232/485§ and DNP over RS-485§				A1884	R4	C4		
2 ports (ACB): RS-232/485§ and Modbus over RS-232				A1882	R5			
2 ports (ACB): RS-232/485§ and DNP over RS-232				A1884	R6			
1 port (NIC): EA_NIC				nA1810	PE			
1 port (NIC): EA_NIC with last gasp				nA1810	PF			
2 ports (NIC): RS-232/485§ and EA_NIC				nA1830	PB			
2 ports (NIC): RS-232/485§ and EA_NIC with last gasp				nA1830	PD			
Miscellaneous options								
				Read without power	Not enabled	Enabled		
Long terminal cover, IEC optical port, TOU battery					0	A		
Long terminal cover, ANSI optical port, TOU battery					1	B		
Long transparent terminal cover, IEC optical port, TOU battery					2	C		
Long transparent terminal cover, ANSI optical port, TOU battery					3	D		
Short terminal cover, IEC optical port, TOU battery					4	E		
Short terminal cover, ANSI optical port, TOU battery					5	F		
Metering options								
Watt, var, TRueQ			(A1805 when combined with A1810 options)					L1
Watt, var, loss compensation, TRueQ								L3
Watt, var, load profiling, TRueQ								L5
Watt, var, loss compensation, load profiling, TRueQ								L7
Watt, var, load profiling, instrumentation profiling, TRueQ								L9
Watt, var, loss compensation, load profiling, instrumentation profiling, TRueQ								LB
Watt, var, 4-quadrant metering, TRueQ								LD
Watt, var, 4-quadrant metering, loss compensation, TRueQ								LF
Watt, var, 4-quadrant metering, load profiling, TRueQ								LH
Watt, var, 4-quadrant metering, loss compensation, load profiling, TRueQ								LK
Watt, var, 4-quadrant metering, load profiling, instrumentation profiling, TRueQ								LM
Watt, var, 4-quadrant metering, loss compensation, load profiling, instrumentation profiling, TRueQ								LP

^Only for non-standard instances of transformer-rated meters where Imax is greater than 10 A. All other transformer rated meters are to use 10 A max as a standard selection.
*Voltage link options available for direct connect-rated meters only.
†Select this option for direct connect meters without voltage links
‡Contact Elster for availability
§4-wire RS-485 implementation
¶2-wire RS-485 implementation

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