

Technical overview

Functions		easy500/700	easy800	MFD-...CP8/CP10...
Counter functions 	Counter relay (up, down counting)	16 (0 to 32000)	32 ($\pm 2^{31}$)	32 ($\pm 2^{31}$)
	Frequency counters	2 (max. 1 kHz)	4 (max. 5 kHz)	4 (max. 3 kHz)
	High-Speed counter	2 (max. 1 kHz)	4 (max. 5 kHz)	4 (max. 3 kHz)
	Incremental counters	–	2 (max. 3 kHz)	2 (max. 3 kHz)
	Hour meter	4 (operating hours value is stored super-retentively (e.g also with program change))		
Time functions 	Weekly timer (4 channels per timer, each channel offers one On/Off time)	8	32	32
	Year time switch	8	32	
	Set cycle time	–	1	1
	Timing relay	16 (0.01 s ... 99 h 59 min)	32 (0.005 s ... 2^{32} min), On-delayed and/or off-delayed (optionally random switching), pulse shaping, flashing	
Program sequencing functions 	Jump	8	32	32
	Conditional jump	–	32	32
	Master reset	3	32	32
Maths functions 	Analog value comparator	16	32	32
	Arithmetic	–	32 (ADD, SUB, MUL, DIV)	32 (ADD, SUB, MUL, DIV)
	PID controller	–	32	32
	PT1 signal smoothing filter	–	32	32
	Value scaling	–	32	32
	Numerical converter	–	32	32
	Pulse output	–	2	–
	Pulse width modulation	–	2	2
	Value limit	–	32	32
Memory functions 	Block comparison	–	32	32
	Block transfer	–	32	32
	Boolean operation	–	32 (AND, OR, NOT)	32 (AND, OR, NOT)
	Comparator	16	32	32
	Data function block	–	32	32
	Data multiplexer	–	32	–
	Shift register	–	32	32
	Table function	–	32	32
Communication functions 	Get value from the NET	–	32	32
	Put value on the NET	–	32	32
	Bit output via NET	–	32	32
	Bit input via NET	–	32	32
	Diagnostic alarm	–	9	9
	Serial protocol	–	32	–
	Synchronize clock via NET	–	1	1
Text functions 	Text display (can be edited via software)	16 × (4 × 12 characters)	32 × (4 × 16 characters)	Yes
	Static text			Yes
	Message text			Yes
	Screen menu			Yes
	Running text			Yes
	Rolling text			Yes
Value entry functions 	Date and time information			Yes
	Year time switch entry			Yes
	Latching pushbutton			Yes
	Button field			Yes
	Timing relay value entry	Yes	Yes	Yes
	Value entry			Yes
	Week clock input			Yes
Enter counter value/reference value/OT	Yes	Yes	Yes	
Value display functions 	Bit display			Yes
	Message bitmap			Yes
	Bargraph			Yes
	Numerical value			Yes
	Timing relay value display			Yes
	Actual values	Yes	Yes	Yes
	Date and time	Yes	Yes	Yes