mini PLC	Type	STG-32	STG-115	STG-500/501	STG-550/570	STG-580	STG-600	STG-606	STG-650	STG-680	STG-700	STG-800/810	STG-820	STG-850	STG-860
Inputs	digital 0-30V	2	8	2	2	2	2		4	4	2	2	2	4	
	digital 0-48V														4
	analog 0-30V/10bit		8	3			8								
	analog 0-30V/12bit	3			3				6		2	3	3	6	
	analog 0-48V/12bit														6
	analog 0-10V/12bit					3				6					
	analog 4-20mA/10bit		2												
	analog PT1000/10bit							6							
Outputs	Power digital 1,5A (HSS)	4	8	4	4	4	8		8	8	4	4	4	8	6
	Power PWM 1,5A (LSS)	1		1	1	1	1		1	1		1		1	1
	Relay		1												
	analog 0-5V/20mA												1		
	Stepper motor										1				
	LED (10mA@24V)							13							
Interfaces	CAN 2.0A/B	✓			✓			✓	✓		✓	✓	✓	✓	✓
	Modbus RTU					✓				✓					
	IrDA											not supported	not supported	not supported	not supported
HMI	Status LED	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LCD/Keys		✓												
CPU/Memory	Controller	PIC18®	PIC18®	PIC18®	PIC18®	PIC18®	PIC18®	PIC18®	PIC18®	PIC18®	PIC18®	ARM® Cortex®	ARM® Cortex®	ARM® Cortex®	ARM® Cortex®
	Program [Byte]	~15000	~11300	~15000	~15000	~14800	~15000	~15000	~15000	~14800	~15000	~48000	~48000	~48000	~48000
	Data (max) [Byte] *	~1190	~1370	~1390	~1190	~1100	~1370	~1190	~1190	~1100	~1190	~14960	~14960	~14960	~14960
	Parameter [Byte]	~640	~760	~890	~640	~640	~760	~640	~640	~640	~640	~5000	~5000	~5000	~5000
	Remanence [Byte] **	32	32	32	32	32	32	32	32	32	32	128+64	128+64	128+64	128+64
Benchmark (without I/O)	ADD_S16/S32/FLOAT [KIPS]	13/12/7	10/9/5,5	11/11/6	13/12/7	13/12/7	12/12/7	13/12/7	13/12/7	13/12/7	13/12/7	184/187/110	184/187/110	184/187/110	184/187/110
	MUL_FLOAT / DIV_FLOAT [KIPS]	7/2,7	6/2,4	7/2,7	7/2,7	7/2,7	7/2,8	7/2,7	7/2,7	7/2,7	7/2,7	99/62	99/62	99/62	99/62
Other	Temperature measurement			Board								CPU	CPU	CPU	CPU
	Measurement of supply voltage			✓			✓								
	Reset of application	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Features	Standard	✓													
	Basic blocks	✓													
	Online access	✓													
	Flow chart		✓									✓	✓	✓	✓
	CPU load					✓				✓	✓	✓	✓	✓	✓
	Run time measurement	✓ (ms)	✓ (ms)		✓ (ms)	✓ (ms)		✓ (ms)	✓ (ms)	✓ (ms)	✓ (ms)	✓ (µs)	✓ (µs)	✓ (µs)	✓ (µs)
	Numerics											✓	✓	✓	✓
	PID controller											✓	✓	✓	✓
	Shift & rotate											✓	✓	✓	✓
	Signal generators											✓	✓	✓	✓
	Signal processing											✓	✓	✓	✓
	Special functions											✓	✓	✓	✓
	Standard transmission terms											✓	✓	✓	✓
	Clock generator 2					✓				✓		✓	✓	✓	✓
I/O Access	CAN Layer 2	✓			✓			✓	✓		✓	✓	✓	✓	✓
	Modbus slave configuration					✓				✓					
	Display		✓												
	Stepper motor control										✓				
	Fast counters	2 (1kHz)		2 (1kHz)	2 (1kHz)	2 (1kHz)	2 (1kHz)		2 (1kHz)	2 (1kHz)	2 (1kHz)	2 (25kHz)	2 (25kHz)	2 (25kHz)	2 (25kHz)
	PWM measurement											✓	✓	✓	✓
	Encoder function											✓	✓	✓	✓

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LSS: Low side switch; HSS: High side switch; KIPS: x1000 Instructions per second

* Available data memory is reduced by every datatype used in the application (~13Byte/Datatype on PIC-Controller, ~19Byte/Datatype on ARM Controller)

** The number of write accesses to the EEPROM is limited (~100.000 on PIC-Controller, ~1.000.000 on ARM Controller [see manual])