

13. TECHNICAL SPECIFICATIONS

13.1 Software characteristics

Software class and structure	A
Maximum number of instruments managed	32
Events/alarms saved	guaranteed 4670 maximum number 9000
Max. variables saved (log)	32 analogue 64 digital
Recording duration with 32 analogue variables at 10 minutes and 64 digital variables at 20 seconds	13.5 days
SMS protocol via PSTN service centre	TAP/UCP
Line speed to external PSTN modem	115,200 baud
Default PSTN modem	US-Robotics

Table 13.1.1

13.2 Electrical and mechanical specifications

Power supply	
Version PLW00B0000	230Vac $\pm 15\%$ 50/60Hz PTC internal protection
Version PLW00U0000	115Vac $\pm 15\%$ 50/60Hz PTC internal protection
Power input	approx. 10VA
Connector	screw terminals for wires with a cross-section of 2.5mm ² , AWG12
Digital outputs	
Alarm relay	230Vac switching contacts, contacts protected by 250Vac varistor 2A max resistive/inductive load
Relay for modem reset	230Vac normally open, contacts protected by 250Vac varistor 2A max resistive/inductive load
Type of relay action	1C (microswitching)
Maximum number of switchings	100,000
Insulation between the relays and the very low voltage parts	reinforced
Insulation between the relays and the front panel	reinforced
Insulation between the two relays	reinforced
Insulation between the terminals of the same relay	functional
Insulation between the very low voltage parts and the front panel	primary
Interfaces	
optically-insulated asynchronous RS485 serial	
Connector	3-way screw terminals for wires with minimum 0.14mm ² and maximum 1.5mm ² cross-section
Insulation between the parts in very low voltage and the serial output	functional (<50V)
Maximum cable length	1km with AWG20/22 twisted pair and shielded cable, capacitance between the wires <90pF/m
Baudrate	1,200-19,200 Baud
RS232 serial	
Connector	8-way telephone connector

Maximum cable length	10m, cable capacitance < 2500pF
Baudrate	1,200-115,200 Baud
33.6 PSTN modem (version PLW00M0000 only)	
Connector	standard RJ-11 for direct connection to the telephone line
Approval	The modem is approved according to the CTR21 specifications, and can thus be used in the following countries: Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Portugal, Sweden, United Kingdom. In Germany an appropriate RJ-11 adapter must be used for all lines that receive the measurement impulses. In other countries an external modem must be used, approved according to local standards.
Various	
Display	alphanumeric 4x20 LCD module, not back-lit
Keypad	silicon, 6 buttons
microprocessor	Hitachi H8-3002 14.7 MHz clock
ROM	2 Mbyte flash for code, parameters and logs
RAM	256 Kbyte
Real time clock powered by lithium battery	

Table 13.1.2

13.3 General characteristics

Operating conditions	0T40 with 20-80% humidity, non-condensing
Storage conditions	0T70 with 20-80% humidity, non-condensing
Index of protection	IP 65
Period of stress across insulating parts	long
Category of resistance to fire and heat	self-extinguishing UL94-V0 category D
Immunity against voltage surges	Category II
Assembly	wall-mounted
PTI of insulating materials	250V
Class of protection against electrical shock	Class II

Table 13.1.3

13.4 Dimensions

Width	190cm
Height	160cm
Depth	65cm

Table 13.1.4

Carel reserves the right to modify or change its products without prior notice