Control Unit

BB1C002

Part Number



- Application-optimized software for volumetric measurement with 2D/3D Profile Sensors
- Compact housing
- Control unit with installed VoluMEL software
- Passive, fan-free cooling

The control unit is shipped with installed wenglor software and is ready for use immediately after installation. An Ethernet port, a digital I/O or an RS-232 port can be used for data read-out at the control unit. The compact housing ensures the necessary flexibility for easy, space-saving installation, for example in a control cabinet or on a wall. Extensive accessories such as keyboard, monitor and various mounting systems are available as options as well.

Technical Data

Supply Voltage	echnicai Data	
Current Consumption (Ub = 24 V) < 2,2 A Temperature Range 040 °C Switching Output Voltage Drop < 2,5 V PNP Switching Output/Switching Current 100 mA Electrical Isolation yes Short Circuit Protection yes Reverse Polarity Protection yes Switching Outputs 8 Digital Inputs 8 Number of RS-232 interfaces 1 Number of USB 2.0 interfaces 2 Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of VGA ports 1 Protection Class III Mechanical Data Wetal Housing Material Metal Degree of Protection IP50 Wall mounting yes Function YoluMEL Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB <th>Electrical Data</th> <th></th>	Electrical Data	
Temperature Range 040 °C Switching Output Voltage Drop < 2,5 V PNP Switching Output/Switching Current 100 mA Electrical Isolation yes Short Circuit Protection yes Reverse Polarity Protection yes Switching Outputs 8 Digital Inputs 8 Number of RS-232 interfaces 1 Number of USB 2.0 interfaces 2 Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of VGA ports 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Metal Degree of Protection IP50 Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port • • • • • • • • • • • • • • • • • • •	Supply Voltage	1836 V DC
Switching Output Voltage Drop PNP Switching Output/Switching Current Electrical Isolation Short Circuit Protection Reverse Polarity Protection Switching Outputs Switching Outputs	Current Consumption (Ub = 24 V)	< 2,2 A
PNP Switching Output/Switching Current 100 mA Electrical Isolation yes Short Circuit Protection yes Reverse Polarity Protection yes Switching Outputs 8 Digital Inputs 8 Number of RS-232 interfaces 1 Number of USB 2.0 interfaces 2 Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Housing Material Metal Degree of Protection IP50 Wall mounting yes Function YoluMEL Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Image: Content of the content of	Temperature Range	040 °C
Electrical Isolation Short Circuit Protection Reverse Polarity Protection Switching Outputs Switching Outputs Signifial Inputs Number of RS-232 interfaces Number of USB 2.0 interfaces Number of USB 3.0 interfaces Number of Gigabit Ethernet RJ45 Number of DVI ports Number of USA ports Number of VGA ports Protection Class III Mechanical Data Housing Material Degree of Protection Wall mounting Volumetric measurement Volumetric measurement Volumetric measurement Volumetric RAM SGB Hard disk RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Switching Output Voltage Drop	< 2,5 V
Short Circuit Protection Reverse Polarity Protection Switching Outputs Bigital Inputs Number of RS-232 interfaces Number of USB 2.0 interfaces Number of USB 2.0 interfaces Number of Gigabit Ethernet RJ45 Number of DVI ports Number of display port interfaces 1 Number of VGA ports Protection Class III Mechanical Data Housing Material Degree of Protection Volumetric measurement Volumetric measurement Volumetric measurement Volumetric measurement Volumetric RAM B GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	PNP Switching Output/Switching Current	100 mA
Reverse Polarity Protection Switching Outputs Digital Inputs Number of RS-232 interfaces Number of USB 2.0 interfaces Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Degree of Protection Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2, 3 GHz RAM RAM RAM RAM RAM RAM RAM RA	Electrical Isolation	yes
Switching Outputs Digital Inputs Number of RS-232 interfaces Number of USB 2.0 interfaces 1 Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Degree of Protection Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM	Short Circuit Protection	yes
Digital Inputs Number of RS-232 interfaces Number of USB 2.0 interfaces 1 Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Degree of Protection Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Reverse Polarity Protection	yes
Number of RS-232 interfaces Number of USB 2.0 interfaces Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Degree of Protection Volumetric measurement Volumetric measurement Volumetric measurement Processor Cycle rate RAM Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Switching Outputs	8
Number of USB 2.0 interfaces Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Degree of Protection Wall mounting Yes Function Volumetric measurement Yolumetric measurement Yos Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Digital Inputs	8
Number of USB 3.0 interfaces Number of Gigabit Ethernet RJ45 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports Protection Class III Mechanical Data Housing Material Degree of Protection Wall mounting Yes Function Volumetric measurement Yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Number of RS-232 interfaces	1
Number of Gigabit Ethernet RJ45 Number of DVI ports Number of DVI ports 1 Number of display port interfaces 1 Protection Class III Mechanical Data Housing Material Degree of Protection Vall mounting Ves Function Volumetric measurement Volumetric measurement Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection	Number of USB 2.0 interfaces	2
Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Protection Class III Mechanical Data Housing Material Housing Material Metal Degree of Protection IP50 Wall mounting yes Function Volumetric measurement Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection Image: Core i7 VGA Connection Image: Core i7 <td>Number of USB 3.0 interfaces</td> <td>2</td>	Number of USB 3.0 interfaces	2
Number of display port interfaces Number of VGA ports Protection Class III Mechanical Data Housing Material Degree of Protection Wall mounting Yes Function Volumetric measurement Yolumetric measurement Yolumetric processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection	Number of Gigabit Ethernet RJ45	2
Number of VGA ports 1 Protection Class III Mechanical Data Metal Housing Material Metal Degree of Protection IP50 Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection Image: Processor of the post of th	Number of DVI ports	1
Protection Class Mechanical Data Housing Material Degree of Protection Wall mounting Volumetric measurement Volumetric measurement Processor Volumetric at Each Software Volumetric at Each Software Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection III Metal Metal III Metal Metal Proc So So So So So Volumetric Frocessor Intel® Core i7 Cycle rate 2,3 GHz So GB So So So So So So So So So S	Number of display port interfaces	1
Mechanical Data Housing Material Metal Degree of Protection IP50 Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Metal Meta	Number of VGA ports	1
Housing Material Metal Degree of Protection IP50 Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Protection Class	III
Degree of Protection Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection IP50 yes Ses Ses Ses Ses VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD Ses	Mechanical Data	
Wall mounting yes Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection O Display port connection	Housing Material	Metal
Function Volumetric measurement yes Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Degree of Protection	IP50
Volumetric measurement Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Wall mounting	yes
Software VoluMEL Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Function	
Processor Intel® Core i7 Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface	Volumetric measurement	yes
Cycle rate 2,3 GHz RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Software	VoluMEL
RAM 8 GB Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Processor	Intel® Core i7
Hard disk 250 GB SSD RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Cycle rate	2,3 GHz
RS-232 Interface Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	RAM	8 GB
Ethernet Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Hard disk	250 GB SSD
Digital I/O USB Interface DVI-D port VGA Connection Display port connection	RS-232 Interface	•
USB Interface DVI-D port VGA Connection Display port connection	Ethernet	
DVI-D port VGA Connection Display port connection	Digital I/O	
VGA Connection Display port connection	USB Interface	
Display port connection	DVI-D port	
	VGA Connection	
Suitable Mounting Technology No. 521	Display port connection	
	Suitable Mounting Technology No.	521

Complementary Products

2D/3D Profile Sensors MLSL/MLWL

Key Pad Z0044

Monitor ZNNG026

Switch ZAC45FN01









