DISIBEINT	SBC8 IO 40 Multi I/O Hubs
Description	
	Pulse centralizer with 4 optocoupled digital inputs and 4 relay outputs. The digital inputs are associated with four memory registers for pulse counting. In the case of outputs, the pulse duration can be programmed in the device.
Featured Features	
	 Ideal for water or gas meter reading and remote control applications Digital inputs for pulse counting or for open/closed contact detection RS-485 Modbus RTU communications to allow remote telemanagement
Electrical data	
Power supply	85 265 VAC. / 120 374 VDC.
Frequency	4763 Hz
Environmental conditions	4,0 V·A AC. / 2,5 V·A DC
	40 150.00
Humidity	-10 +50 °C 5% 95%
Maximum working altitude	2000 m
Mechanical data	
Surround material	UL94-V0 self-extinguishing plastic
Protection degree	IP20
Weight	105 x 86,5 x 46mm
Mounting	DIN rail
Serial interface	
Туре	RS-485 three threads (A+/S GND/ B-) (RX/GND/TX)
Transmission speed	9600 / 19200 bps configurable
Data bits	8 No parity
Stop bit	1
Characteristics and electrical safety	
Electrical safety	CAT III 300 V according to EN 61010
Electric shock protection	Double insulation class II
Digital input features	
Туре	Optoisolated voltage free (dry contact)
Maximum activation current	SUMA
Characteristics digital outputs	
I ype Nominal voltage	250 VAC
Electrical endurance	3·10/4 operations
Rated Current	
With resistive load	250 VAC / 5 AAC 250 VAC / 5 AAC
With inductive load (DC)	24 VDC / 5 ADC
Regulations	
	IEC 60664, VDE 0110, UL 94, EN-61010-1, EN 55011, EN 61000-4-3, EN 61000-4-11, EN 61000-6-4, EN 61000-4-2, EN 61000-6-2, EN 61000-6-1, EN 61000-6-3, EN 61000-4-5 -CE



Installation

The equipment is installed on a DIN rail, leaving all the connections inside an electrical panel.

The equipment must be connected to a power circuit protected with type gl (IEC 269) or type M fuses, between 0.5 and 2 A. A magneto-thermal switch or equivalent device must be provided to disconnect the equipment from the power supply network. The power supply circuit of the equipment will be connected with a cable with a minimum section of 2.5 mm².

Electrical wiring





Power	Activity in case of supplying the ec	uipment with auxi	liary power	
RX	Blinking during RS-485 reception			
TX	Blinking during RS-485 transmission			
Dimensions				
Dimensions	The equipment has an RS-485	5 type communic	58 48 48 48 49 4 4 58 58 58 58 58 58 58 58 58 58 58 58 58	g the device
	 Parameters. To do this, the equipment has all KS-46c parameters. To do this, the equipment of the address hexadecimal which is equivalent to lf you do not remember the slave hexadecimal): Remove auxiliary power to the equipment of the equipmen	quipment ocated on the from	ation point for reading and whith dbus/RTU communication protocol. E ecimal 62) and communication speed d we can assign any other address (n retrieve the default address (98 de n t of the equipment	g the device By default, it is d 192000 bps (at most FF ir crimal or 62 ir
	peripheral number (98 Decimal / 6	2 Hexadecimal).	the equipment automatically recover	ers the defaul
Modbus RTU memory map	peripheral number (98 Decimal / 6	2 Hexadecimal).	the equipment automatically recove	ers the defaul
Modbus RTU memory map	peripheral number (98 Decimal / 6	2 Hexadecimal).	Unit	Function
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number	2 Hexadecimal).	Unit	Function 4,16(0x10)
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed	2 Hexadecimal).	Unit 1: 9600bps	Function 4,16(0x10)
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version	Input registers 0x3000 0x3500-0x3502	Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0	Function 4,16(0x10) 4,16(0x10) 4
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no.	Input registers 0x3000 0x3001 0x3500-0x3502 0x3503-0x3504	Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0	Function 4,16(0x10) 4,16(0x10) 4
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1	Input registers 0x3000 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001	Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 -	Function 4,16(0x10) 4,16(0x10) 4
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2	Input registers 0x3000 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001 0x0002-0x0003	Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - -	Function 4,16(0x10) 4,16(0x10) 4 4 4 4 4 4
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2 Counter value 4	Input registers 0x3000 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001 0x0002-0x0003 0x0004-0x0005 0x0006-0x0005	the equipment automatically recover Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - - -	Function 4,16(0x10) 4,16(0x10) 4 4 4 4 4 4 4
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2 Counter value 3 Counter value 4 Digital input status Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F	Input registers 0x3000 0x3001 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001 0x0002-0x0003 0x0004-0x0005 0x0006-0x0007 0x2000	the equipment automatically recover Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - - 0000: Input seactivated 0001: Input 1 active 0003: Inputs 1 and 2 activated Bin0001: Bit lower weight E1 Bin1000: Bit higher weight E4	Function 4,16(0x10) 4,16(0x10) 4 4 4 4 4 4 4 4 4
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2 Counter value 3 Counter value 4 Digital input status Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Control digital outputs Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F	Input registers 0x3000 0x3001 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001 0x0002-0x0003 0x0004-0x0005 0x0006-0x0007 0x2000 0x1000	Unit Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - - -	Function 4,16(0x10) 4,16(0x10) 4 4 4 4 4 4 4 4 4 4 4 4
Modbus RTU memory map	Peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2 Counter value 3 Counter value 4 Digital input status Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Control digital outputs Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Control digital outputs by impulse Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F	Input registers 0x3000 0x3001 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001 0x0002-0x0003 0x0006-0x0007 0x2000 0x1000 0x1500	Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - - 0000: Inputs deactivated 0001: Input 1 active 0000: Inputs deactivated 0001: Input 1 active 0000: Outputs deactivated 0000: Outputs deactivated 0001: Bit lower weight E1 Bin1000: Bit higher weight E4 0000: Outputs 1 and 2 active Bin0001: Bit lower weight R1 Bin 1000: Bit higher weight R4 0000: Pulses deactivated 0001: Pulse 1 active 0001: Pulse 1 active 0001: Bit lower weight R1 Bin 1000: Bit higher weight R4 00001: Pulse 1 active 0003: Pulse 1 and 2 active Bin 0001: Bit lower weight imp R1 Bin 1000: Bit higher weight imp R1 Bin 1000: Bit higher weight imp. R4	Function 4,16(0x10) 4,16(0x10) 4 4 4 4 4 4 4,16(0x10) 4,16(0x10) 4,16(0x10)
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2 Counter value 3 Counter value 4 Digital input status Activated = Closed (1) Deactivated = Open (0)^1 Minimum 0 Maximum F Control digital outputs Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Control digital outputs by impulse Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Pulse duration (Low Byte - Relay 1 / High Byte - Relay 2)	Input registers 0x3000 0x3001 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001 0x0002-0x0003 0x0006-0x0007 0x2000 0x1000 0x1500 0x2500	Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - - 0000: Inputs deactivated 0001: Input 1 active 0003: Inputs 1 and 2 activated Bin0001: Bit lower weight E1 Bin1000: Bit higher weight E4 0000: Outputs deactivated 0001: Output 1 active 0003: Outputs 1 and 2 active Bin0001: Bit lower weight R1 Bin 1000: Bit higher weight R4 0000: Pulses deactivated 0001: Pulse 1 active 0003: Pulse 1 and 2 active Bin 0001: Bit lower weight R1 Bin 1000: Bit higher weight mp R1 Bin 1000: Bit higher weight inp. R4 01: Duration 20ms FF: Duration 5100ms	Function 4,16(0x10) 4,16(0x10) 4 <
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2 Counter value 3 Counter value 4 Digital input status Activated = Closed (1) Deactivated = Open (0) ^T Minimum 0 Maximum F Control digital outputs Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Control digital outputs by impulse Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Pulse duration (Low Byte - Relay 1 / High Byte - Relay 2)	Input registers 0x3000 0x3001 0x3500-0x3502 0x3503-0x3504 0x000-0x0001 0x0002-0x0003 0x0006-0x0007 0x2000 0x1000 0x1500 0x2500	Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - - 0000: Inputs deactivated 0001: Input 1 active 0003: Inputs 1 and 2 activated Bin0001: Bit lower weight E1 Bin1000: Bit higher weight E4 0000: Outputs deactivated 0001: Output 1 active 0003: Outputs 1 and 2 active Bin0001: Bit lower weight R1 Bin 1000: Bit higher weight R4 0000: Pulses deactivated 0001: Pulse 1 active 0003: Pulse 1 and 2 active Bin 0001: Bit lower weight R1 Bin 1000: Bit higher weight mp R1 Bin 1000: Bit higher weight imp R1 Bin 1000: Bit higher weight inp. R4 01: Duration 20ms FF: Duration 5100ms	Function 4,16(0x10) 4,16(0x10) 4 4 4 4 4 4 4 4 4,16(0x10) 4,16(0x10) 4,16(0x10) 4,16(0x10)
Modbus RTU memory map	peripheral number (98 Decimal / 6 Magnitude Peripheral number Transmission speed Device version Serial no. Counter value 1 Counter value 2 Counter value 3 Counter value 4 Digital input status Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Control digital outputs Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Control digital outputs by impulse Activated = Closed (1) Deactivated = Open (0) Minimum 0 Maximum F Pulse duration (Low Byte - Relay 1 / High Byte - Relay 2) +34 934 560 995 www.disibeint.com	Input registers 0x3000 0x3001 0x3500-0x3502 0x3503-0x3504 0x0000-0x0001 0x0002-0x0003 0x0004-0x0005 0x1000 0x1000 0x1500 0x2500	the equipment automatically recover Unit - 1: 9600bps 2: 19200bps Format: "V1.10" values in ASCII and the last byte is always 0 - - 0000: Inputs deactivated 0001: Input 1 active 0003: Inputs 1 and 2 activated Bin0001: Bit lower weight E1 Bin1000: Bit higher weight E4 0000: Outputs deactivated 0001: Output 1 active 0003: Outputs 1 and 2 active Bin0001: Bit lower weight E1 Bin 1000: Bit higher weight R4 0000: Pulses deactivated 0001: Pulses 1 active 0003: Pulse 1 and 2 active Bin 0001: Bit lower weight Imp R1 Bin 1000: Bit higher weight imp R1 Bin 1000: Bit higher weight imp R1 Bin 1000: Bit higher weight imp R4 01: Duration 20ms FF: Duration 5100ms	Function 4,16(0x10) 4,16(0x10) 4 4 4 4 4 4 4 4 4 4 4 4 4