

The AS-Interface® master unit has a standard serial interface for interfacing to the user's system. With the aid of the master, distances up to 15 m between the master and a host can be attained.

An RS232 interface can today be used by virtually every memory programmable controller and industrial PC. In many cases there are already tools for easily programming the interface, so that interfacing with AS-Interface® using the AS-Interface® master unit is easily accomplished.

The entire voltage supply (master and AS-Interface® circuit) can also be provided on BAS M-W-001-RS232C by a simple 24 V DC power supply.

Integrated status LED's inform the user of the current operating conditions. In case of an error condition or during start-up, the user is assisted by a 2-digit, seven-segment display.

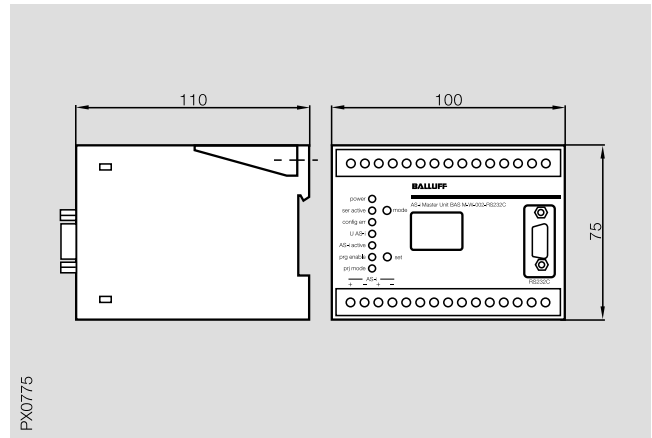
A simple interface software program (in C language) permits easy coupling to PC programs.

By using the two function keys and the 7-segment display, the AS-Interface® circuit can be easily started up and operated (programming of the slave addresses using 2 buttons).

Start-up, error finding and projecting on the AS-Interface® circuit can be done without serial communication, using only the buttons and the display.



	<b>Master Unit</b> use supply voltage in addition	<b>Master Unit</b> supplied from AS-Interface® circuit
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Ordering code	BAS M-W-001-RS232C	BAS M-W-002-RS232C
Protocol	Balluff	Balluff
Outputs	RS232C	AS-Interface®
	transmission rate 1200, 2400, 4800, 9600, 19200 or 38400 baud, automatic recognition	with internal supply voltage or additional AS-Interface® power supply
Supply voltage U <sub>B</sub>	24 V DC (18...30 V DC)	per AS-Interface® specification
	AS-Interface® power supply always connect	from AS-Interface® circuit
Rated operational current I <sub>e</sub>	≤ 150 mA	
Protected against polarity reversal	yes	
Short circuit protected	yes	
Ambient temperature range T <sub>a</sub>	-25...+85 °C	
Function indication	LCD, 2-digit	address display/error code
	LED green	voltage ON (power)
	LED green	RS232C running (ser active)
	LED red	configuration error (config err)
	LED green	AS-Interface®-voltage OK (U AS-Interface®)
	LED green	AS-Interface®-run normal (AS-Interface® active)
	LED green	automatic programming (prg enable)
	LED yellow	projecting mode active (prj mode)
Degree of protection per IEC 60529	housing IP 40, terminals IP 20	
Buttons	2 (mode and set)	
Master profile	M 1	





	<b>Master Control</b> supplied from AS-Interface® circuit	<b>Master Control</b> supplied from AS-Interface® circuit
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The master control is a complete master and host in one unit. Sensor information can be directly linked with actuators.

The control program describing how to link process data is loaded through the serial port and stored non-volatile, so that even after power interruptions operation can be continued.

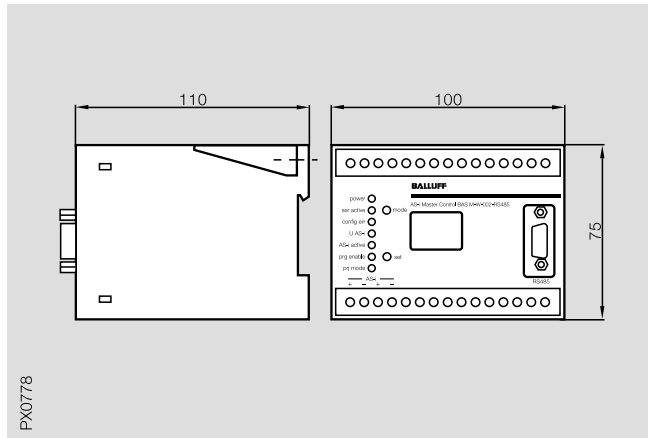
As long as no control program is being processed, the master behaves like a traditional serial master.

Programming the master control is based on "STEP 5" syntax (registered trademark of Siemens), but enhanced with AS-Interface®-specific components. Included software tools assist the user. Upload, download, timers, counters and flags can be used.

Up to 768 instructions, 128 bytes of flags, 15 times and 15 counters can be used. The timers and counters are 12 bits wide. The smallest timer increment is 10 ms.

The RS485 interface opens new application possibilities. The transmission distance becomes greater and multi-master operation is possible, i. e., up to 31 masters can be administered by a PC or host on a 485-interface.

The master can be accessed for information exchange at any time during the control or programming sequence from the host level through the serial interface.



Ordering code	BAS M-W-002-RS485	BAS M-W-002-MOD485
Protocol	Balluff	MODBUS
Outputs	RS485	transmission rate 1200, 2400, 4800, 9600, 38400 or 57600 baud, automatic recognition per AS-Interface® specification
	AS-Interface®	from the AS-Interface® circuit
Supply voltage $U_B$		$\leq 180$ mA
Rated operational current $I_e$		yes
Protected against polarity reversal		yes
Short circuit protected		0...+55 °C
Ambient temperature range $T_a$		address display/error code
Function	LCD, 2-digit	voltage ON (power)
Function indication	LED green	interface operating (ser active)
	LED green	configuration error (config err)
	LED red	AS-Interface®-voltage OK (U AS-Interface®)
	LED green	AS-Interface®-run normal (AS-Interface® active)
	LED green	automatic programming (prg enable)
	LED green	projecting mode active (prj mode)
	LED yellow	housing IP 40, terminals IP 20
Degree of protection per IEC 60529		2 (mode and set)
Buttons		M 1
Master profile		

