

Digital output module XMP-GA-12-DO / HAND

Fields of application

- Controlling of positioning elements and drives (1 to 4 grade).

Functions, properties, options

- RS485 interface
- Hardware addressing via micro switches
- 12 binary outputs (DO1 – DO12), potentialfree
- max. cable length: approx. 300m (2x2x0.8)
- diagnosis of communication status by 2 LED's
- 12 status displaying LED's, one per output
- all inputs and outputs are directed via separating terminals
- Option: XMP-GA-12-DO-HAND** with manual operation panel → switches (EIN, AUS, AUTO)

Technical data

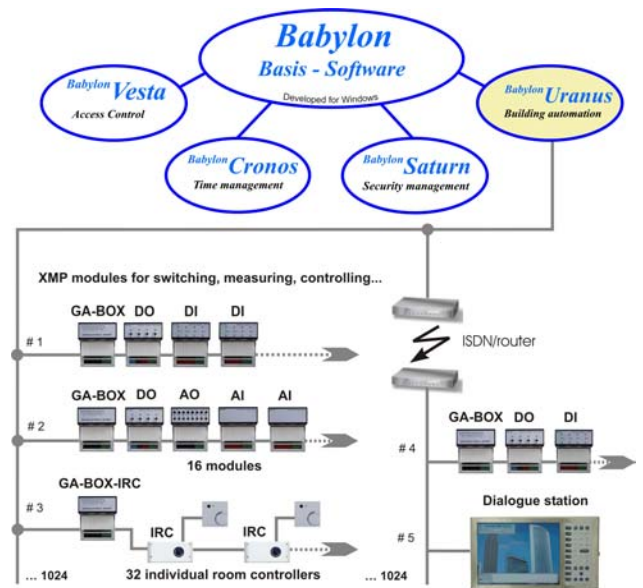
Power supply:	24 V AC ±10%
Current consumption:	max. 100 mA for 24 V AC (in idle state)
Power consumption:	Approx. 2.5 W in idle state (in dependence on external wiring max. 10 W)
Power output of the relays:	Max. 5 A for 250 V AC Max. 5 A for 30 V DC
Interfaces:	1 x RS485 9600 Baud asynchronus 19200 Baud asynchronus
Processor:	AT89C51
Surrounding conditions::	During operation: 0 to 50°C (32 to 122°F) Storage: -40 to 70°C (- 40 to 158°F) 5 - 95% relative humidity, not condensing
Dimensions:	(HxWxL) 150 x 114.5 x 135 mm 160 x 114,5 x 135 mm (/HAND)
Weight:	approx. 0.54 kg

Module for controlling of 12 binary outputs (without and with manual operating panel)



XMP-GA-12-DO

XMP-GA-12-DO-HAND



Scheme for the connection possibilities of the XMP-GA modules to BABYLON/NT

XMP-GA-BOX	GA controller module for the GA input and output modules as well as for the individual room controllers (special firmware!)
XMP-GA-12-DI	12 times binary input
XMP-GA-12-DO	12 times binary output
XMP-GA-12-DO-HAND	12 times binary output with manual operating panel
XMP-GA-4-DO	4 times binary output
XMP-GA-4-DO-HAND	4 times binary output with manual operation panel
XMP-GA-8-AI	8 times analogue input
XMP-GA-8-AO	8 times analogue output
XMP-GA-8-AO-HAND	8 times analogue output with manual operating panel
XMP-GA-IRC-001	Individual room controller

Order number: **XMP-GA-12-DO**
XMP-GA-12-DO-HAND

XMP-GA-12-DO

The flexible URANUS modules offer the optimal solution for the planning of building specific automation systems. The **XMP-GA-12-DO** modules are used for controlling of positioning elements and drives.

XMP-GA-12-DO-HAND specifications

Applying the switches which are integrated on the XMP-GA-DO-HAND module the digital outputs can be adjusted to

- AUTO → controlled by the system,
- EIN → relais are switched manually, or
- AUS → outputs are switched off.

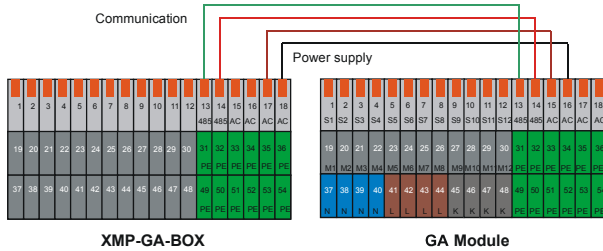
Connection terminals

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	485	485	AC1	AC1	AC2	AC2
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	PE	PE	PE	PE	PE	PE
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
N	N	N	N	L	L	L	L	K	K	K	K	PE	PE	PE	PE	PE	PE

Legend: S1-S12: Closing contact
 M1-M12: Cross contact
 N, L, K: Supporting terminals
 AC1 / AC2: 24 V / AC
 485: RS485 interface
 PE: Protected Earth

The terminal occupancy of the XMP-GA-12-DO(-HAND)

Terminal	13	14	15	16	17	18
Function	RX	TX	AC1	AC1	AC2	AC2
	Communication RS485		Operation voltage module		Voltage transfer to the next module	



Hints for wiring:

The 12 binary outputs are potentialfree!

If the output (1..12) is set (active) then the corresponding contacts between S and M are closed (closing function). The supporting terminal blocks N, L and K are bridged blockwise among each other.

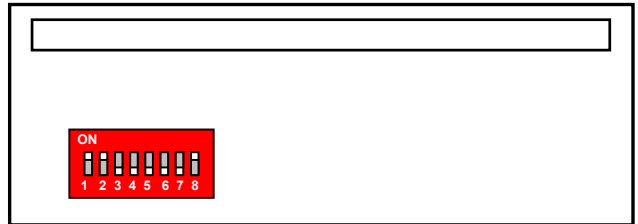
The operation voltage for every module is connected from outside via the connection terminals.

It is possible to connect the communication lines from one module to the other by using the enclosed connector or the connection terminals (13,14) of the modules. Data cable need to be twisted paired and shielded! (For example: Y-STY or better.)

Attention!

The field-devices must be supplied by a separate power supply **absolutely!** That means: The power supply for the operation of the XMP-GA Modules and those of the field devices must not be the same! The ignoring of this hint can effect serious damages on the XMP-GA Module.

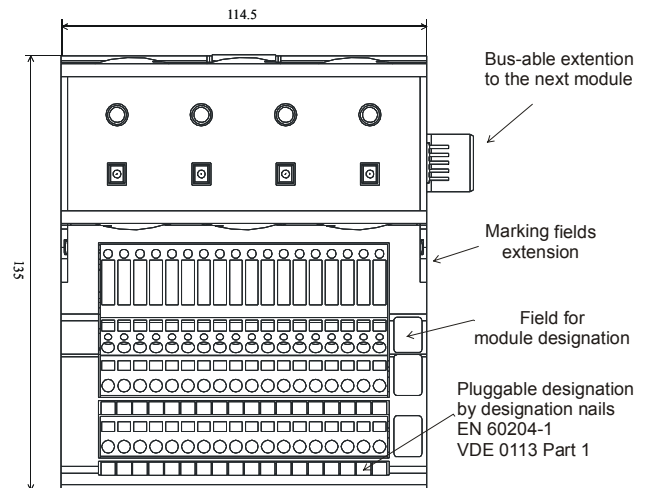
Adjusting the micro switches:



SW1: Adjusting the hardware address of the DO-module:

Micro switches 1..4	Adjusting the hardware address (0..15) of the XMP-GA-12-DO(-HAND) Example: 1 2 3 4 1 0 0 0 = addr. 1 0 1 1 0 = addr. 6
Micro switches 5..8	Baudrate (Sinc Software GA-12DO-V1.2) 0 0 0 0 → 9600 Baud 0 0 0 1 → 19200 Baud

Dimensions:



All module types are encoded mechanically on the clamp socket for mix-up prevention !

