

JUMO dTRON 304/308/316 – Compact Controller with Program Function (703041/42/43/44)

- 48 × 48, 48 × 96, 96 × 48, 96 × 96 mm formats
- Two-state/three-state continuous controller, three-step controller, continuous controller
- Inputs and outputs can be expanded in a modular structure
- Timer/ramp/program function
- Math and logic function
- Modbus and PROFIBUS DP interface
- Approval DIN EN 14597



Order details

				(1) Basic type	
				703041	dTRON 316 (48x48mm) 1 analog input, 2 relays and 2 logic inputs or 2 logic outputs
				703042	dTRON 308H (48x96 mm) 1 analog and 2 logic inputs, 2 relays and 2 logic outputs, supply voltage for 2-wire-transmitter
				703043	dTRON 308Q (96x48 mm) 1 analog and 2 logic inputs, 2 relays and 2 logic outputs, supply voltage for 2-wire-transmitter
				703044	dTRON 304 (96x96 mm) 1 analog and 2 logic inputs, 2 relays and 2 logic outputs, supply voltage for 2-wire-transmitter
					(2) Basic type extension
X	X	X	X	1	Basic type
					(3) Version
X	X	X	X	8	Standard with default settings
X	X	X	X	9	Customer-specific configuration (specification in plain text)
					(4) Logic outputs
X	X	X	X	1	2 x 0/12V
X	X	X	X	2	2 x 0/18V
					(5) Slot 1
X	X	X	X	0	Not to be used
X	X	X	X	1	Analog input
X	X	X	X	2	Relay (changeover)
X	X	X	X	3	2 relays (make contacts)
X	X	X	X	4	Analog output
X	X	X	X	5	2 logic inputs
X	X	X	X	6	Solid-state relay 1A
X	X	X	X	7	Interface RS422/485
X	X	X	X	8	Interface PROFIBUS-DP
					(6) Slot 2
X	X	X	X	0	Not to be used
X	X	X	X	1	Analog input
		X	X	2	1 relay (changeover)
		X	X	3	2 relays (make contacts)
X	X	X	X	4	Analog output
X	X	X	X	5	2 logic inputs
X	X	X	X	6	Solid-state relay 1A
X	X	X	X	7	Interface RS422/485
X	X	X	X	8	Interface PROFIBUS-DP
					(7) Slot 3
X	X	X	X	0	Not to be used
		X	X	1	Analog input
		X	X	2	1 relay (changeover)
		X	X	3	2 relays (make contacts)
		X	X	4	Analog output
		X	X	5	2 logic inputs
		X	X	6	Solid-state relay 1A
		X	X	7	Interface RS422/485
		X	X	8	Interface PROFIBUS-DP

				(8) Voltage supply	
X	X	X	X	23	AC 110 to 240 V +10/-15 %,48 to 63 Hz
X	X	X	X	25	AC/DC 20..30V,48..63Hz
				(9) Extra codes	
X	X	X	X	000	None
X	X	X	X	214	Math and logic module
X	X	X	X	217	Ratio controller
X	X	X	X	218	Differential controller
X	X	X	X	219	Humidity controller
X	X	X	X	879	AMS2750/CQI-9
X	X	X	X	061	With UL-approval

Order code

(1) (2) (3) (4) (5) (6) (7) (8) (9)

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Possible assignments of expansion slots 1 and 2 for dTRON 316 (703041)

1.	2.	Expansion slot	Max. number	1st option	2nd option	Order code	Part no.
0	0	Not used	2	X	X		
1	1	Analog input	1	X	X	701550(3041/3046)/1	00776490
2	2	Relay (changeover contact)	1	X	-	701550(3041/3046)/2	00442786
3	3	2 relays (N/O contact)	1	X	-	701550(3041/3046)/3	00442787
4	4	Analog output	2	X	X	701550(3041/3046)/4	00442788
5	5	2 binary inputs	1	X	X	701550(3041/3046)/5	00442789
6	6	Solid state relay 1A	2	X	X	701550(3041/3046)/6	00442790
7	7	RS422/485 interface	1	X	X	701550(3041/3046)/7	00442782
8	8	PROFIBUS DP interface	1	X	X	701550(3041/3046)/8	00442791

Possible assignments of expansion slots 1, 2, and 3 for dTRON 308 (703042, 703043) and dTRON 304 (703044)

1.	2.	3.	Expansion slot	Max. number	Order code	Part no.
0	0	0	Not used	3		
1	1	1	Analog input	1	701550(3041/3046)/1	00776490
2	2	2	Relay (changeover contact)	2	701550(3041/3046)/2	00442786
3	3	3	2 relays (N/O contact)	2	701550(3041/3046)/3	00442787
4	4	4	Analog output	2	701550(3041/3046)/4	00442788
5	5	5	2 binary inputs	2	701550(3041/3046)/5	00442789
6	6	6	Solid state relay 1A	2	701550(3041/3046)/6	00442790
7	7	7	RS422/485 interface	1	701550(3041/3046)/7	00442782
8	8	8	PROFIBUS DP interface	1	701550(3041/3046)/8	00442791

Activation overview

Designation	Order code	Part no.
Activate math and logic module	701550(3041/3046)/214	00444930

Important information:
Extra code 879 (AMS2750/CQI-9)

For the calibration certificate, the channels to be checked must be named, stating the thermocouple type and the desired measuring points. The device is to be used as a permanently installed field device. Use as a mobile field testing device for SAT and TUS exams is not permitted.

This extra code is only available in conjunction with customer-specific configuration (language/setup=9).



Accessories

Description	Part no.
PC interface with converter USB/TTL	00456352
Analog Input Module (universal) dTRON 30	00776490
701550(3041/3046)/2 (relay (1 changeove	00442786
701550(3041/3046)/3 (2 relays (N/O conta	00442787
Analog Output Module dTRON 300 Option 4	00442788
701550(3041/3046)/5 (2 binary inputs)	00442789
701550(3041/3046)/6 (solid-state relay 1	00442790
701550(3041/3046)/7 (interface RS422/485	00442782
701550(3041/3046)/8 (interface PROFIBUS-	00442791
701550(3041/3046)/214 (math and logic mo	00444930
Surface-mounted housing for type 96x96mm (96 mm × 96 mm), with lid	00750965
surface-mounting 2FGE-125-2/125 Feldgehaeuse	00361257
Stainl. steel housing cutout 96 x 96 mm	00628452
Mounting bracket for DIN rail 48x96 mm	00375747
Mounting bracket for DIN-rail 48 x 48 mm	00375745
Mounting bracket for DIN rail 96 x 48 mm	00375749

Software

Description	Part no.
GSD-Generator JUMO 144.01.xx/1.xx (download free of charge on our website)	00432892
Setup JUMO dTRON 304/308/316 (plast)	00445443