



Type 7400 Measuring and Control Station

Application

For use in simple control applications

Function

For use in simple control applications with one or two control loops in combination with control valves by SAMSON Group companies.

SAMSON control valves are used to control the process medium in a plant or pipeline based on a set point. The valves require a control signal in this case. A process variable (e.g. pressure or temperature) must be measured to generate a control signal. An industrial controller (e.g. TROVIS 6493, ▶T 6493 or TROVIS 6495, ▶T 6495) is used to compare the measured process variable with a set point (PID control loop) to create a positioning value for the control valve.

Special features

- Ready-to-connect equipment
- Contains a TROVIS 6495/TROVIS 6493 Industrial Controller
- For one or two control loops
- Ready-wired for temperature or pressure control
- 24 V or 230 V version
- Installation directly in the plant
- No external set point required
- Set point input possible
- On-site installation for shorter cables



Fig. 1: Type 7400 Measuring and Control Station

Versions

Type 7400 Measuring and Control Station

The Type 7400 Measuring and Control Station is a ready-to-connect unit that includes a ready-wired TROVIS 6493 or TROVIS 6495 Industrial Controller. The measuring and control station allows an industrial controller to be installed in the plant for on-site operation. The equipment has an IP65 rating. The wiring is routed through the cable glands and connected to the terminal block inside the enclosure.

Version for pressure control

Type 7400-0x Measuring and Control Station

Ready-wired for control of up to two pressure control loops (see Table 2 for versions)

Version for temperature control

Type 7400-1x Measuring and Control Station

Ready-wired for control of up to two temperature control loops with Pt100/Pt1000 sensors (see Table 2 for versions)

Customized version for specific applications

Type 7400-99 Measuring and Control Station

For customized control tasks with a TROVIS 6495/ TROVIS 6493 Industrial Controller (▶T 6493 and ▶T 6495)

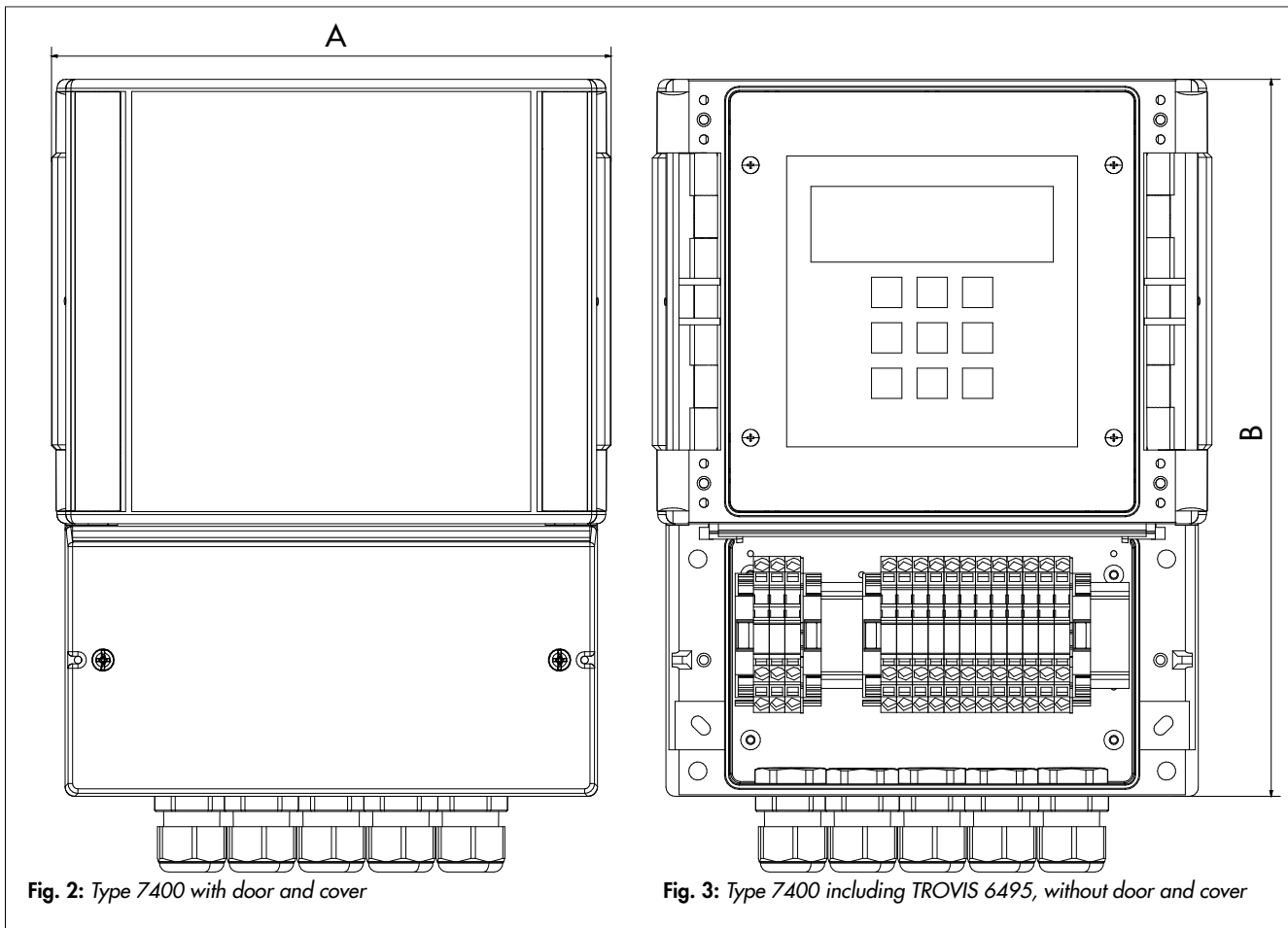


Table 1: Technical data

SAMSON Type		7400-xx
Installation dimensions (approx.)	Width A	185 mm
	Height B	238 mm
	Depth	225 mm
Material	Polycarbonate	
Color	RAL 7035, transparent cover	
Supply voltage	230 V/N/PE (+/-10 %) 24 V AC/DC	
Fuse, max.	10 A	
Supply line, max.	2.5 mm ²	
Ambient temperature	0 to 40 °C	
Degree of protection	IP65	
Applicable standard	DIN EN 61439-1	
Industrial controller	SAMSON TROVIS 6495/TROVIS 6493	
Connection	5x M16x1.5 cable gland	
Set point input	Fixed (at the unit), variable (external set point)	

Table 2: Overview of versions

Type	Material no.	Industrial controller	Analog inputs	Analog outputs	Voltage supply	Control [default setting]	
7400-01	100147091	1x TROVIS 6493	2x AI [4 to 20 mA]	1x AO [4 to 20 mA]	90 to 230 VAC	1 control loop [Fixed set point control for pressure]	
7400-02	100147092	1x TROVIS 6495		2x AO [4 to 20 mA]		2 control loops [Fixed set point control for pressure]	
7400-03	100147093	2x TROVIS 6493		1x AO [4 to 20 mA]		24 V AC/DC	1 control loop [Fixed set point control for pressure]
7400-04	100147094	1x TROVIS 6493		2x AO [4 to 20 mA]	2 control loops [Fixed set point control for pressure]		
7400-05	100147095	1x TROVIS 6495		2x AI [Pt100/Pt1000]	1x AO [4 to 20 mA]		90 to 230 VAC
7400-11	100173614	1x TROVIS 6493			2x AO [4 to 20 mA]	2 control loops [Fixed set point control for temperature]	
7400-12	100173616	1x TROVIS 6495	1x AO [4 to 20 mA]		24 V AC/DC	1 control loop [Fixed set point control for temperature]	
7400-13	100173617	2x TROVIS 6493	2x AO [4 to 20 mA]			2 control loops [Fixed set point control for temperature]	
7400-14	100173618	1x TROVIS 6493	Customized configuration in TROVIS 6493 or TROVIS 6495			1x AO [4 to 20 mA]	90 to 230 VAC
7400-15	100173619	1x TROVIS 6495			2x AO [4 to 20 mA]	2 control loops [Fixed set point control for temperature]	
7400-16	100173770	2x TROVIS 6493		1x AO [4 to 20 mA]	24 V AC/DC	1 control loop [Fixed set point control for temperature]	
7400-99	100173771			2x AO [4 to 20 mA]		2 control loops [Fixed set point control for temperature]	



RFQ Form for Type 7400 Measuring and Control Station

Customer data			
Company			
Address			
Name			
Phone number			
E-mail			
Send your inquiry to your regional SAMSON contact or e-mail it to ► systems-de@samsongroup.com.			
Assorted versions			
Pressure control	7400-01	Qty.	
	7400-02	Qty.	
	7400-03	Qty.	
	7400-04	Qty.	
	7400-05	Qty.	
	7400-06	Qty.	
Temperature control	7400-11	Qty.	
	7400-12	Qty.	
	7400-13	Qty.	
	7400-14	Qty.	
	7400-15	Qty.	
	7400-16	Qty.	
Special version	7400-99	Split-range control	Qty.
		Override control	Qty.
		Flow control	Qty.
			Qty.
Options			
Temperature sensor	SAMSON Type 5207 to 5277 with Pt1000 (► T 5220)		Measuring range
	SAMSON Type 5204 to 5255 with Pt100 (► T 5203)		Measuring range
	SAMSON Type 5343 (► T 5206)		Measuring range
	Qty.		
	Thermowell length		
Pressure transmitter	SAMSON Type 7491		Measuring range
	Weld-in siphon and shut-off valve		
Notes			