

Ex-p System F-320T.



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The advanced ATEX approved Ex p-System F-320T.offers some brand new and unique features:

- Certified according to the newest ATEX95 regulations with a unique working temperature range of minus 30°C...+60°C for heavy industrial environments.
- Built-in intrinsically safe interface to connect e.g. a bypass keyswitch type F-480 or a temperature sensor type F-465.
- Bright LED-display with oversized viewing window for status and error indication.
- Very reliable ambient protected built-in sensors for long time operation without need of maintenance
- Black reinforced GFK, fully seawaterresistant and anticorrosive case with certified IP66 protection for use even in Offshore ambients.
- Intuitive Wheel-Shuttle® Technology for adjusting and parametrization allows quick and easy configuration without reading complex operating manuals.
- Powerful alarm/switching contacts for loads up to 12 Amps and Ex e terminals for use with cables up to 4mm².
- The new and small Ex p System F-320T.allows now completely redesigned Ex p pressurization systems with smaller components.
- Easy way of installation with only two system components (Ex-p Controller and air inlet group) together with the patented Wheel-Shuttle® Technology gives even beginners and unexperienced technicians the possibility for installing Ex-p protected components.
- The Ex p System F-320T.is part of a complete series of Ex p controllers and components to provide the user with the optimal technical solution.
- If wanted, we take responsibility of the complete evaluation process for an Ex p cabinet. This includes:
 - Construction and built of pressurized cabinets
 - Mounting of non-ex equipment inside the cabinet
 - Use of other kinds of ex-protection (e.g. Ex-d or Ex-i components)
 - Complete validation with test report in our company

[Technical data >>](#)

Technical Data F-321T.		Control unit F 321T.
General	Mounting	in Ex area zone 1, 2, 21 and 22
	Ex-Protection	ATEX II 2D Ex mb ia e [pz] [ia] IIC T4 and ATEX II 2G Ex td A21 T70°C IP66
	IP Protection class	IP 66 (for air outlet on request)
	Ambient temperature	operating: - 30° C ... + 60° C, without condensation
Enclosure of control unit	Dimensions	H x W x D: 94,5 mm x 120 mm x 122 mm
	Material	GRP, epoxy resin, black, antistatic, seawaterresistant
Electrical specifications	Current consumption	30 mA at 230 VAC / 300 mA at 24 VAC
	Mains voltage	12VDC, 24VDC, 24VAC, 110VAC, 120VAC, 230VAC, 250 VAC, 48 ...62 Hz
	Alarm contacts	2 potential free contacts, programmable nc or no
	Max. contact load terminals 4,5, 6, 7	AC: U = 250VAC, I = 12,0 Amps / cos φ =1 DC: U = 30VDC, I = 3,0 A
	Valve output (terminals 9,10)	to connect a digital non-ex (Mode P1) or ex valve (Mode P2) pre-purge and automatic leakage compensation
	4 x Ex Cable glands	2x M20 for cable d=7-13 mm, 2x M16 for cable d=4,5-10 mm
	Intrinsic safe connector (optional)	Intrinsic safe supply for external temperatur sensor F-465 or Bypass- keyswitch F-480
Pneumatic	Pressure range	0,5...25,0 mbar (other ranges on request)
	relief valve (optional) necessary for pre-purge	patent. completely maintenance-free air outlet with integrated ex-proofed particle barrier
	Overpressure protection	via built-in overpressure valve (opens at approx. 4 mbar)
Display LED - Display Viewable through window	Purge time range	0... 255 Min. (if necessary for type of py or pz pressurization)
	Pressure range indication	0,5...25,0 mbar (50-2500Pa) , resolution: 0,1 mbar (10 Pa)
	Temperature indication	5°C ...60°C, resolution 1°C, limiter adjustable in 1°C steps
	Menu access/parameterize	Via patented wheel shuttle technology
	Status indication	LCD-Display with 2 additional status LED`s
Viewing Window	Mounted in cover of unit	Magnifying window allows complete view of LED -Display without removing cover of the controller
	Material	Polyacryl, magnifying, diameter 58 mm
Mounting	Position of mounting on cabinet	inside or outside cabinet without any limitations
	Ambient temperature during storage / transport	- 40° C to +70° C, without condensation
Ex p configuration programmable	Standard	leakage compensation without pre-purging
	Variant A	with relief valve (+ connected air valve for pre-purging)
	Variant C	with Ex i connector for temperatur sensor F-465

