

Ex px System F-350



Smallest and most advanced Ex px system worldwide

- The advanced ATEX approved Ex px system F-350 offers some brand new and unique features:
- Intuitive Wheel-Shuttle® Technology for adjusting and parameterization allows quick and easy configuration without reading complex operating manuals.
- Certified according to the newest ATEX95 regulations with a unique working temperature range of $-30^{\circ}\text{C} \dots 60^{\circ}\text{C}$ for heavy industrial environments.
- Built-in intrinsically safe interface to connect e.g. additional pressure and temperature sensors or even a complete remote unit (Type F-411).
- Graphical LCD-display with oversized viewing window for status and error indication
- Duo Tec Fail safe technology with multiprocessor
- Very reliable protected built-in sensors for long time operation without maintenance
- Black reinforced GFK fully seawater resistant and anticorrosive case for use even in offshore environments.
- The new and small Ex px system F-350 allows now completely redesigned Ex px protections with smaller components.
- Easy way of installation with only two system components (Ex-px Controller and air inlet group) together with the patented Wheel-Shuttle® Technology gives even beginners and inexperienced technicians the possibility for installing Ex-p protected components.
- The Ex px system F-350 is part of a complete series of Ex p controllers and components to provide the user with the optimal technical solution.
- On request we take responsibility of the complete evaluation process for an Ex p cabinet including:
 - 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

Internet: <http://www.elb.de>

Technical Data F-350

General	Mounting	in Ex Area 1 or 2 (Cat. 2 and 3 accord. to ATEX 95)
	Ex-Protection	II 2 G Ex mb e ia [px] [ia] IIC T4 or II 2 G Ex mb d ia [px] [ia] IIC T4
	IP Protection class	IP 65 (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, seawater resistant
Electrical specifications	Power consumption	ca. 2 VA, connected loads not included
	Mains voltage	12VDC, 24VDC, 24VAC, 110VAC, 120VAC, 230VAC, 250 VAC, 48 ...62 Hz
	Max. contact load terminals 4, 5, 6, 7	AC: U = 250VAC, I = 6 A / cos φ =1 DC: U = 30VDC, I = 3 A
	4 x Ex Cable glands	2 x M20 for cable Ø = 7-13 mm 2 x M16 for cable Ø = 4.5-10 mm
	Intrinsically safe connector (5-pole)	Intrinsically safe supply for external temperature sensor F-460, Remote unit F-411 or Bypass- keyswitch F-480
Pneumatic	Pressure range	0...25 mbar (other ranges on request)
	Flow measure range	(0.2 l/sec – 12 l/sec in 3 ranges)
	relief valve	Patent. completely maintenance-free air outlet with integrated ex-proofed particle barrier
Parametrization	Wheel shuttle Technology	Intuitive Wheel-Shuttle Technology for quick and easy adjusting and configuration
	Configuration	easily accessible via menu on LCD display, language selectable: German, English
Display LCD - Display high reflective	Purge time range	0... 99 Min. real-time calculation
	Pressure range	0... 25.0 mbar (0-2500Pa) , resolution: 0.05 mbar (5 Pa)
	Menu and status	LC-Display: 3 lines with 12 characters each
	Errors	Via display and acoustic alarm (with Remote Unit F-411)
Viewing Window	Mounted in cover of unit	Magnifying window allows complete view of LC -Display without removing cover of the controller
	Material	Polyacryl, magnifying, diameter 58 mm
Mounting	Mounting position	Inside or outside the cabinet without any limitations
Pressurizing configuration programmable	Ambient temperature	-30°C...+60°C (T4) during operation - 40° C to +70° C, storage, without condensation
	Variant A	Leakage compensation with automatic switch to variation B
	Variant B	continuous purging (to cool equipment inside cabinet)

