

EEx-p System F-350

E.L.B. EX-GERÄTE 
D-64625 BENSHEIM Tel.: 06251-63736
Fax.: 06251-63729



Smallest and most advanced EEx p-System worldwide now available

The advanced EEx p-System F-350 offers some new unique features:

- Patented Wheel-Shuttle® Technology for adjusting and parametrization allows quick and easy configuration without a complex operating manual.
- Certified according to the newest ATEX regulations with a unique working temperature range of $-30^{\circ}\text{C}...60^{\circ}\text{C}$ for heavy industrial environments.
- Built-in intrinsically safe interface to connect e.g. additional pressure and temperature sensors or even the complete remote unit F-411.
- Graphical LCD-display with oversized viewing window for status and error indication
- Duo Tec Fail safe technology with multiprocessor signal processing meets AK4 (according to EN 954-1).
- Very reliable protected built-in sensors for long time operation without maintenance
- Black reinforced GFK fully anticorrosive case for use even in Offshore ambients.

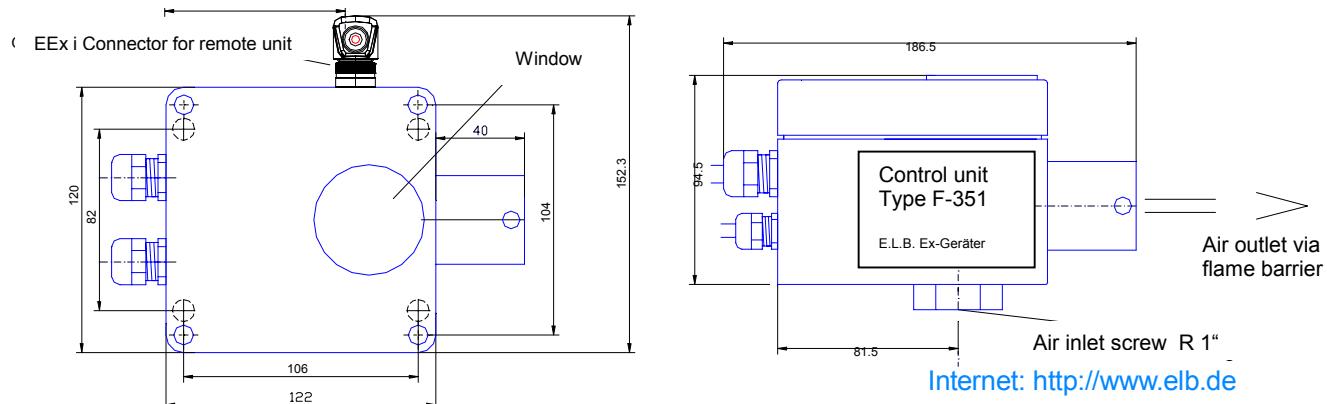
- The new and small EEx p System F-350 allows now completely redesigned EEx p protections with smaller components.
- Easy way of installation with only two system components (EEx-p Controller and air Inlet Group) together with the patented Wheel-Shuttle® Technology gives even beginners and unexperienced technicians the possibility for installing EEx-p protected components.
- The EEx p System F-350 is part of a complete series of EEx 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 EEx 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. EEx-d or EEx-i components)
 - Complete validation with test report in our company

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

Technical Data F-350

Rev. 1.4

Control unit F 351		
General	Mounting	in Ex Area 1 or 2
	Ex-Protection	II 2 G EEx e m [ib] IIC T4, or II 2 G EEx d m [ib] IIC T4
	Protection class	IP 65 (additionally for air outlet possible)
	Ambient temperature	operating: -30° C ... +60° C, without condensation
Enclosure of control unit	Dimensions	H x W x D: 122 mm x 120 mm x 94 mm
	Material	GRP, epoxy resin, black
electrical specifications	Current consumption	30 mA at 230 VAC / 300 mA at 24 VAC
	Mains voltage	12VDC, 24VDC, 24VAC, 110VAC, 120VAC, 200 – 264 VAC, 48 ... 62 Hz
	Contact load Terminals 6, 7, 8, 9	AC: U = 250VAC, I = 12,0 Amps / cos φ = 1 DC: U = 30VDC, I = 3,0 A
	4 x EEx Cable glands	2 x M16 for cable d=4,5-10 mm , 2 x M20 for d= 7-13 mm
	Intrinsic safe connector (5-pole)	Intrinsic safe supply for external pressure sensor F-470, Remote unit F-411, Temperature sensor or Bypass- keyswitch
Pneumatic	Measure range	0 ... 51,0 mbar (other ranges on request)
	Durchflussmessbereich	0,4 m ³ /h – 20,0 m ³ /h
	relief valve	patent.completely maintenance-free air outlet with integrated ex-proofed particle barrier
Security class	duo-tec technology	Fail safe , meets AK 4 (according to EN 954 – 1, Cat. 3)
Parameterize	patented wheel shuttle	patented Wheel-Shuttle Technology for quick and easy adjusting and configuration
	Configuration	with menu on LC-Display, different languages selectable :German, Englisch, Castellano
Display LCD - Display high reflective	Purge time	0... 99 Min. realtime display
	pressure range	0... 51,2 mbar , resolution: 0,1 mbar
	Menu and status	Textdisplay : 3 Lines x 12 Signs
	Errors	via display and acoustic (with Remote Unit F-411)
Viewing Window	Mounted in cover of unit	To read the LCD-Diplay during operation without removing the cover of the controller
	material	Polyacryl, highly visible, diameter 58 mm
Mounting	Position of mounting on cabinet	without any limitations
	Ambient temperature during storage / transport	- 40° C to +80° C, without condensation
EEx p Configuration programmable	Variant A	leakage compensation with automatic switch to variant B
	Variant B	continous purging (to cool equipment inside cabinet)
	Variant C	for small and moveable EEx p cabinets
	Variant D	for analyzers with internal release of flammable gases etc.



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