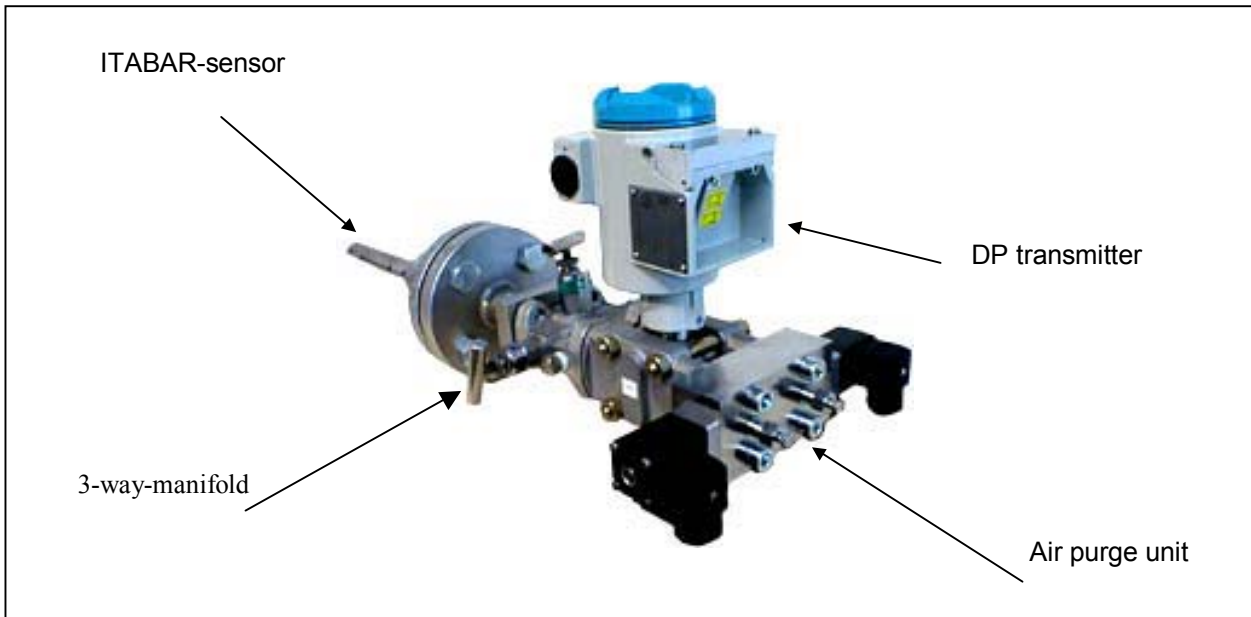


## 8.4 Air Purge Unit LSP-compact



### Description

When measuring the flow of emissions or air containing particles it is possible that particles attach themselves in- and outside of the sensor walls, and – depending on the degree of coating – reduce the measurement accuracy or even eliminate the signal from the sensor altogether.

To manually clean the DP sensor in regular intervals is in many instances not a practical solution. The removal, thorough cleaning and re-installation is time consuming and expensive. Furthermore no signal is available during the cleaning process.

The LSP-compact air-purge unit allows such regular cleaning to be done automatically and with considerable cost savings.

The LSP-compact unit mainly consists of a purge block with a 2/2-way-valve which is directly addressable via a customer supplied relais or SPS . It is also possible to activate the LPS via the DigiFlow flow computer. The DigiFlow is programmable for purge duration, purge frequency, Slowing-down time . At the same time the DigiFlow maintains the last signal value during the cleaning process.

The LPS is delivered with all necessary mounting hardware and is installed by screwing one side of the purge block directly onto the DP transmitter. The pressure piping is attached to the other side. The vent screws are threaded into the purge block. It is thus ensured that not only the sensor but also the sensing chambers of the DP transmitter are purged of impurities. The standard  $\frac{1}{2}$ " NPT connections for the purge air supply are located on the sides of the block.

This compact design with few components avoids more complicated installation procedures in a separate enclosure.

Specifications Air Purge Unit LSP-compact	
Medium:	Air
Valve type:	2/2 –way valve, direct-controlled
Function:	normally closed
Kv- flow value:	1,01 GPM
Nominal stroke:	0.04 inches
On-time ?:	100 %
Material of internal parts:	Stainless steel
Material Dichtungen:	FPM
Connection:	¼“ NPT
Orientation:	user selectable
nominal size	0.12 inches
Leak rate:	bubble tight
Protection class:	I
Isolation class:	F
Protection	IP 65 / Nema 4 (IEC 144)
Material of purge block	Aluminum or 316 SS (1.4571)

VERSIONS:	w/out Ex-protection	EEx d - Version
Ex protection:	NONE	EEx d IIC T4/T5 TO EN 50014 and EN 50018
Nominal voltage:	230 V / 50 Hz, 115 V /50 Hz and 24 V DC	230 V / 50 Hz, 115 V /50 Hz, 24 V DC and 24 V / 50 Hz
Electrical connections:	to DIN 43650	cable H05RN-F3G, 3 x 0,75 mm <sup>2</sup> , 3 m long with cable glands and strain relief
Power consumption	21 VA (start up); 12 VA /8 W (operat.)	Nominal power cons. 7 W
Max. air supply pressure:	88,2 psi	58,8 psi
Medium temperature:	14 ... +203°F	14 ... +194°F
Environmental temperature:	max. +131 °F	max. +104°F

Code	w/out Ex protection			Ex protection EEx d IIC T5			
Material of purge block:	230 V 50 Hz	115 V 50 Hz	24 V DC	230 V 50 Hz	115 V 50 Hz	24 V 50 Hz	24 V DC
Aluminum	EJG-1A	EJG-2A	EJG-3A	EJG-6A	EJG-7A	EJG-8A	EJG-9A
St Steel (1.4571)	EJG-1S	EJG-2S	EJG-3S	EJG-6S	EJG-7S	EJG-8S	EJG-9S