

- EN54-20 certified
- CE certified according to CPD

**DFA05** is a high sensitivity air sampling detector. It takes continuous air samples via one or two sampling pipe tube networks, then supply the samples to one or two smoke sensors. Thanks to this detection method and the product's excellent properties under severe ambient conditions, DFA05 aspirating smoke detector is used wherever problems are to be expected related to a difficult access to a monitored area or other variable disturbance so optimal protection can no longer be quaranteed with regular fire detectors.

DFA05 exists in 1 or 2 smoke detection zones. Each zone is monitored by the means of an aspirating system and a smoke analysing detector. Two ranges of sensitivity are available for the detectors: 0,01%/m to 10%/m and 0,002%/m to 10%/m, according to the class of fire detection to fulfil.

DFA05 is perfect used for high buildings, false ceiling or floor, high risks areas (laboratories, computer rooms), discrete installation (Prisons, museums)...

Optional 5-relay interface module and memory card module for memory events storage are also available.

The configuration of the device and the pipe network design can be done through a complete set of software: **Sampling Pipe Config** engineering software for **calculation** allowing to **engineer EN54-20 compliant systems**; **DFA05 Config** software for the direct connection and configuration of the DFA05 device with a computer.



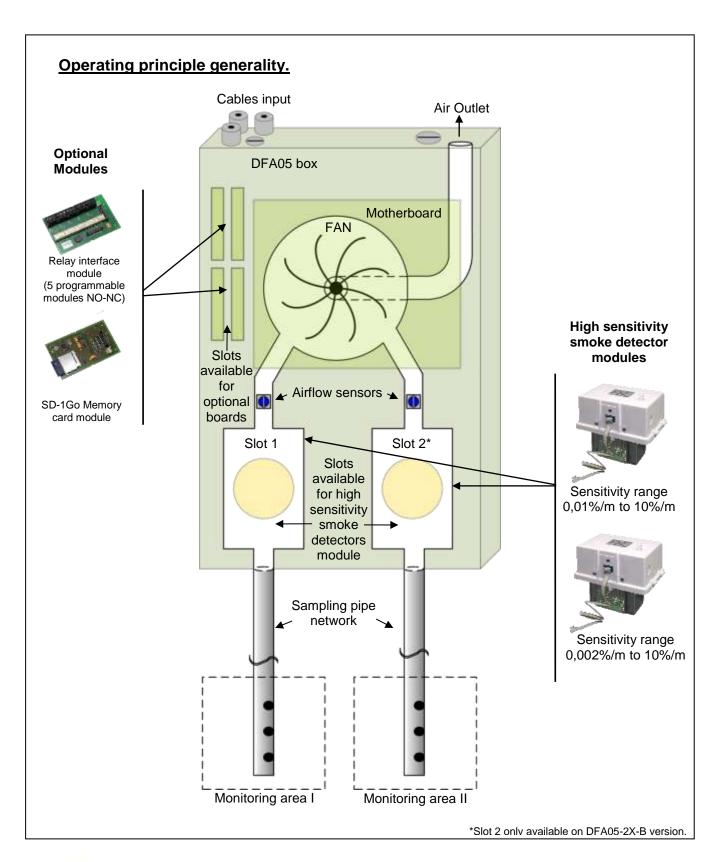
#### Main characteristics

- Early and accurate smoke detection.
- 1 or 2 sampling lines with separate air flow monitoring
- 1 or 2 detection channel with smoke level display
- Two sensitivities for detection: 0,01%/m and 0,002%/m
- Online dirty status compensation
- Option 5-relay board for information repetition
- Option SD memory card to save memory events
- Calculation software: Sampling Pipe Config.
- Low noise level, compliant with ISO 11690-1
- Elegant design and discrete installation

	Power supply specification		
	DFA05- 1 detector	DFA05-2 detectors	
Main supply voltage	10,5 to 30 VDC		
Nominal	24V		
Fault	260 mA	290 mA	
Alarm	310 mA	385 mA	
Additional RIM35	7 mA (per optional board)		
Additional MCM35	10 mA (per optional board)		
	Mechanical characteristics		
Unit weight	max. 3.850 Kg		
Unit dimensions (in mm)	265 x 348 x 146 mm		
Unit row material and color	ABS Blend / Grey - anthracite violet		
Noise level (at fan speed level 3)	43 dB		
IP rating	54		
	Climatic characteristics		
Detector housing temperature range	-20 to +60°C		
May approved temporature fluctuation	20°C		
Max approved temperature fluctuation,	(fluctuation between sampling pipe and housing)		
Ambient pressure difference	Must be identical (from housing to sampling pipes environment)		
Detector housing humidity	95 % rel.hum. without condensation (ambient condition)		
Humidity ambient temperature	70 %rel.hum.		
	General characteristics		
Detector sensitivity range	0,01%/m or 0,002%/m		
Display	Leds for alarm, fault, dirty status and 10 level of smoke status		
Relay contacts	Fault, Alarm line 1, Alarm line 2 or freely programmable (50 VDC, 1A, 30W)		
Communication port	USB		









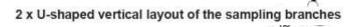
+33 (0)1 60 13 67 24 +33 (0)1 60 13 67 26 sd3@sd3.net

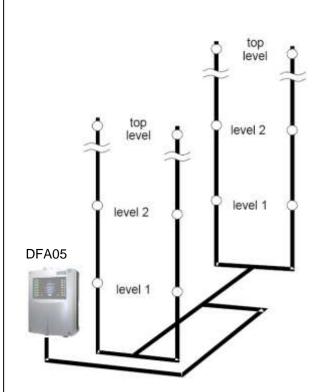
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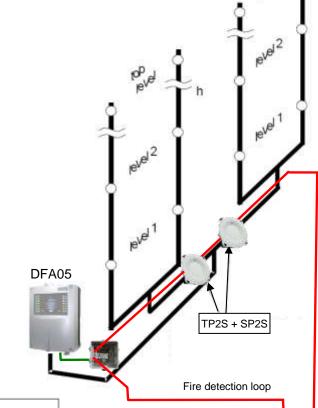


# <u>Examples of Easy Configuration tubes planning.</u> For "real world" topologies

### Forme H- vertical







PIPE NETWORK	]		
Tube diameter	25mm		
Max.Number of holes per channel		24	
Max. length per pipe	Class A:	Class B:	Class C:
network:	100m	140m	200m
Max. area to cover (48	60m²/hole:		80m²/hole:
holes)*:	2000 m <sup>2</sup>		2000 m <sup>2</sup>
Configuring/Modelling	Modelling Predefined as per EN54-20 (Easy Config) Application specific (Sampling Pipe Config)		
			ling Pipe Config)

<sup>\*</sup>Based upon the regulation rules of the country.

### Addressable system

ETC05 interface module





Héphaïs 128 Hép

Héphaïs 1600 (+ NE)

#### Optional addressable fire localisation device



**SP2S + TP2S**: Fire localisation device (Head + base)

To be connected to aspirating pipe with high sensitive detector. Allows to address the air sampling points. To be connected also on the addressable SD3 Fire detection system

П	SP2S + TP2S features		
I	Standby consumption:		
	Closed isolator 150µA		
	Opened isolator: 350µA		
	Alarm consumption: 5mA		
	Size(mm): Ø120 x h64, Length 148		
	Weight: 240 ars		

IP index: IP54

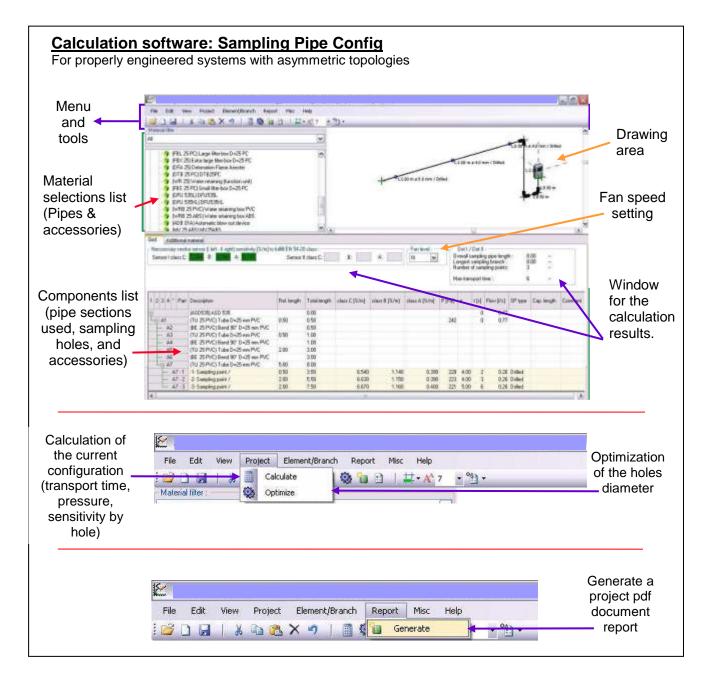
Voltage: From 10Vdc to 30Vdc Nominal: 20Vdc

Fault consumption: 150µA

Operating temperature: -30° to -60°C Relative operating humidity :≤93% Storage temperature: -10° to +50°C







<u>REFERENCE</u> <u>DESCRIPTION</u>
DFA05-1C-B Conventional s

Conventional single channel high sensitivity detector base with smoke level indicator Conventional dual channel high sensitivity detector base with smoke level indicator

Conventional single channel high sensitivity detector base Conventional dual channel high sensitivity detector base

High sensitivity smoke detector module, alarm sensitivity range 0,01%/m to 10%/m High sensitivity smoke detector module, alarm sensitivity range 0,002%/m to 10%/m

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Relay interface module SD-1GO Memory card module System design software

Programming software
Fire localisation device head
Fire localisation device base

SSD 535-3 RIM35 MCM35 Sampling Pipe Config DFA05 Config TP2S SP2S

DFA05-2C-B

**DFA05-1C** 

**DFA05-2C** 

SSD 535-2