

- 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.



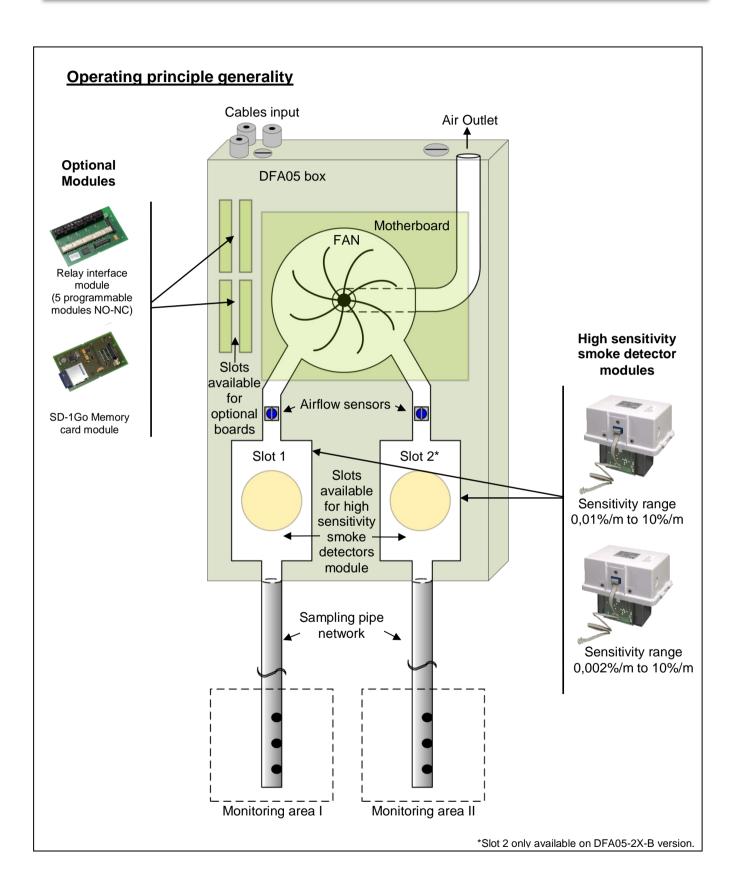
Main characteristics

- 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	
Max approved temperature fluctuation	20°C	
	(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	









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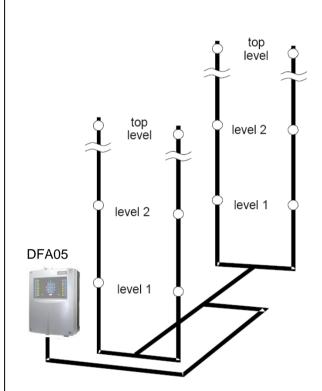


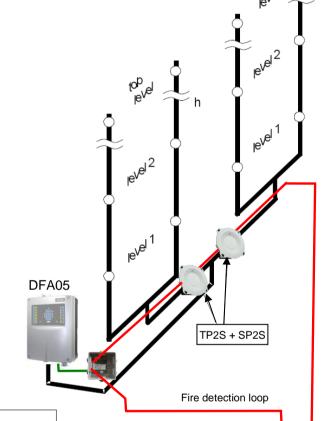
Examples of Easy Configuration tubes planning.

For "real world" topologies

Forme H- vertical

2 x U-shaped vertical layout of the sampling branches





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	300m
Max. area to cover (48	60m²/hole:		80m²/hole:
holes)*:	2000 m ²		2000 m ²
Configuring/Modelling	Predefined as per EN54-20 (Easy Config)		
	Application specific (Sampling Pipe Config)		

^{*}Based upon the regulation rules of the country.

Addressable system

ETC05 interface module





Héphaïs 128

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

Non contractual document

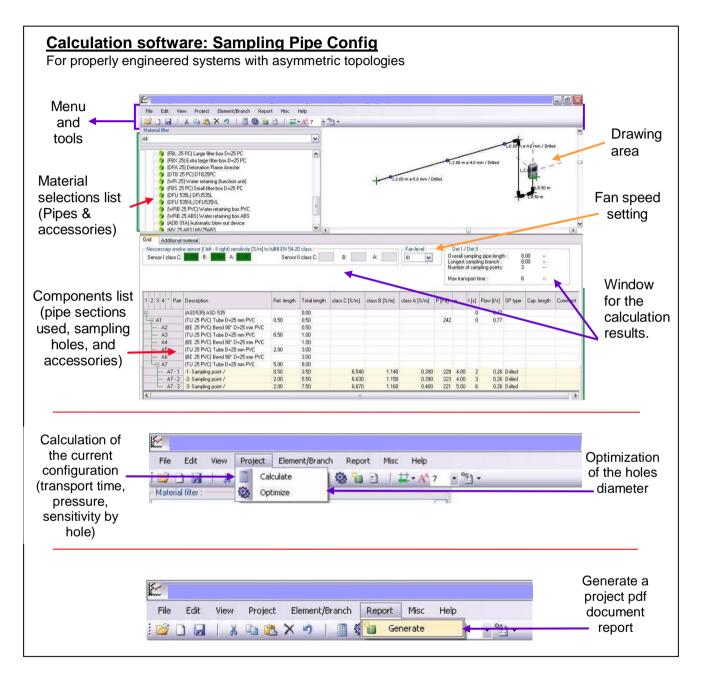
SP2S + TP2S features	
Standby consumption:	Voltage: Fro
Closed isolator 150µA	Nominal: 20
Opened isolator: 350µA	
Alarm consumption: 5mA	Fault consu
Size(mm): Ø120 x h64, Length 148	Operating t
Weight: 240 grs	Relative op

IP index: IP54

rom 10Vdc to 30Vdc :0Vdc umption: 150µA temperature: -30° to -60°C Relative operating humidity :≤93% Storage temperature: -10° to +50°C







REFERENCE **DESCRIPTION**

Conventional single channel high sensitivity detector base with smoke level indicator DFA05-1C-B DFA05-2C-B Conventional dual channel high sensitivity detector base with smoke level indicator **DFA05-1C** Conventional single channel high sensitivity detector base **DFA05-2C** Conventional dual channel high sensitivity detector base

High sensitivity smoke detector module, alarm sensitivity range 0,01%/m to 10%/m SSD 535-2 SSD 535-3 High sensitivity smoke detector module, alarm sensitivity range 0,002%/m to 10%/m

RIM35 Relay interface module SD-1GO Memory card module **MCM35** Sampling Pipe Config System design software Programming software

DFA05 Config TP2S Fire localisation device head SP2S Fire localisation device base

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