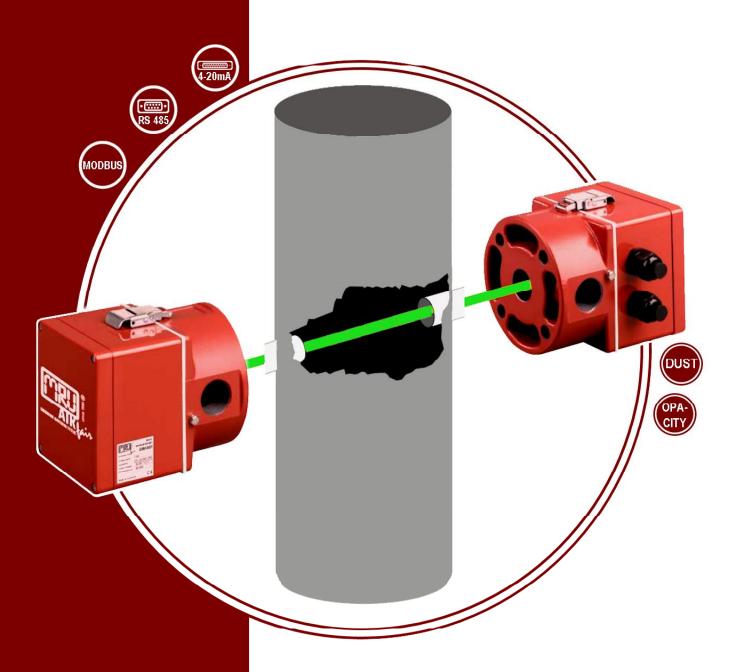


DUST / OPACITY MONITORING SYSTEM





Over 30 years of innovative gas analysis!

- Double pass opacity monitor
- Small, light weight, low power supply and operating costs
- Direct continuous measurement across stack
- No moving parts minimal maintenance
- Long-life green light LED

DUST MONITORING SYSTEM

CONTINUOUS IN-SITU MONITORING

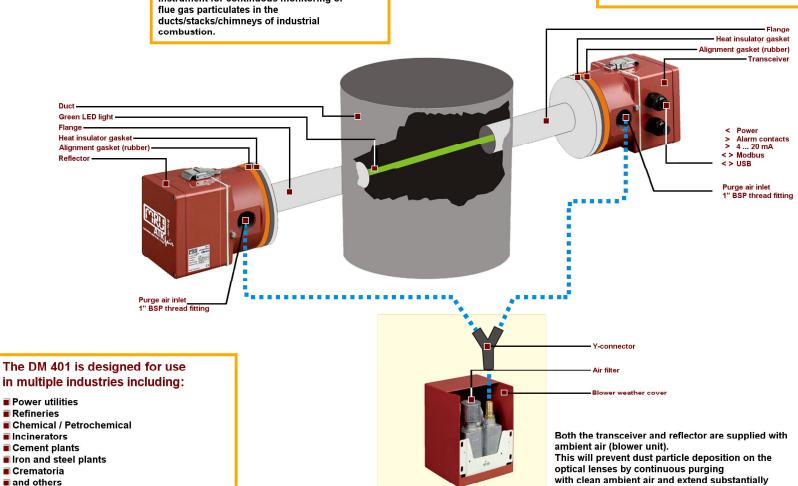
Double pass transmission measurement Measures 0 ... 100 % opacity or 10 ... 1,000 mg/m dust (*) (*) after on site calibration according to VDI 2066

> DM 401 is the ideal dust monitoring instrument for continuous monitoring of

FEATURES:

- Direct continuous measurement across stack
- Small, lightweight & low operating costs
- Simple installation, commissioning and operation
- No moving parts minimal maintenance
- PC based setup, control and data logging
- Long-life green LED source
- High measuring accuracy
- Opacity or mg/m3

the maintenance free operation.





TECHNICAL SPECIFICATIONS

Parameter

Measurement performance				
Path length	m	0.5	12	flange to flange distance
lange to flange	feet	1.64	39	
Measuring range	%	0	100	user selectable
	mg/m3	10	1,000	after on site calibration
ccuracy	%	-2	+2	
esolution	%		0.1	display resolution
amping	S	1	60	selectable
rift with temperature	%	-2	+2	for every 20°C change
Operation wave length	nm	510	540	green LED
Power and air requirements	Units	Min	Max	Comments
	VDC	+24	+24	optional 90 240 VAC PSU available
oltage ir supply volumo	m3/h	+24 5	+24 60	•
ir supply volume ir supply pressure	mbar	Э	500	optimal: 40 m3/h must exceed max stack pressure
Air supply pressure	inH2O		200	must exceed max stack pressure
ir supply fittings	ШП2О		200	1" BSP thread fitting
in supply littings				1 bor timeau nitting
nterface options	Units	Min	Max	Comments
S 485				Modbus RTU
nalog output	mA	4	20	isolated and scalable
elay contacts	А	0	3	level alarm and service alarm
Physical	Units	Min	Max	Comments
rotection class	Onics	IP65	IVIUX	for outdoor use
perating temperature	°C	-20	+50	air temperature around equipment
perusing temperusure	°F	-4	122	an temperature around equipment
ias temperature	°C	100	600	optional insulators required above 300°C
	°F	212	1,112	optional insulators required above 572°F
Dimensions	Units			Comments
Transceiver	mm			153 x 122 x 120
	inch			6.02" x 4.8" x 4.72"
Reflector	mm			153 x 122 x 120
	inch			6.02" x 4.8" x 4.72"
	IIICII			· · · · · · · · · · · · · · · · · ·
Veight				2 kg each
Veight	kg lbs.			2 kg each 4.4 lbs. each

Units

Min

Max

Comments

Data subject to change without notice

