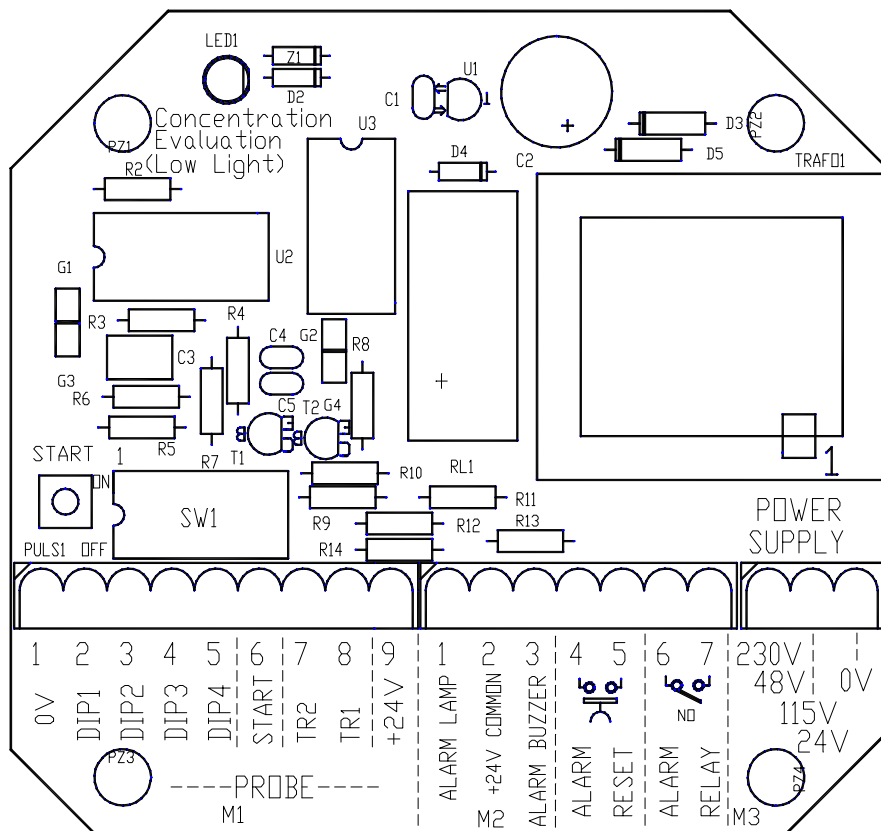


DMA-M-ALL

(DustMini Module Auxiliary with alarm point)

INSTRUCTIONS MANUAL



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Legend:



IMPORTANT INSTRUCTION

THE EQUIPMENT MUST ONLY BE USED FOR THE PURPOSE WHICH IT WAS DESIGNED FOR.

1 DESCRIPTION

Auxiliary equipment for the series DustMini probes, including:

- Power supply 24 Vdc for probe.
- Start button for the acquisition of the concentration of Reference
- Dip-switch for selection of multiplication factors
- Alarm light (LED mounted on the panel) which occurs for both alarm outputs TR1, TR2
- Stored acoustic alarm, silenced, (buzzer mounted on the panel) that intervenes with the alarm output TR2.

There are three types of outputs (acoustic, lighting, relay) differentiated according to the type operating chosen:

MOVING MEDIA

1) WARNING:

- Its status is indicated by a short beep and light.
- The output relay is energized with the same mode.

2) ALARM:

Its status is indicated by audible and bright pulsed signal for the entire duration. Intervening on the mute button the acoustic signal stops and remains fixed light signaling.

- The relay is energized along with the acoustic signal.
- If the alarm disappears the signalings are cancelled.

REAL AVERAGE

1) PEAK ALARM:

- The intervention is indicated with a beep acoustic and light.
- The relay is energized for the same time of the acoustic and Light signalling.

2) AVERAGE ALARM:

Its status is indicated by audible and bright pulsed signal for the entire duration of the average. Intervening on the mute button the acoustic signal stops and remains fixed light signaling.

- If at the end of the next average the situation of alarm persists, the bright signaling remains fixed.
- If at the end of the next average the situation of alarm disappears, the signalings are cancelled.
- The relay is energized for the same time of the acoustic signalling.

Related functions START button and Dip-switches are described on the instruction manual of the DustMini.

2 INSTALLATION

The probe and the DMA-M-ALL must be protect from the inclemencies, in particular to protect the acoustic announcer from water sprays.

3 ELECTRICAL CONNECTIONS FOR DustMini

The connections between the probe and the M1 terminal of the auxiliary module are made using a shielded cable with 4 twisted pairs AWG-24.

Model DD/LT/HT Terminals	DustMini Cable	DMA-M-ALL Terminal block M1	Function
Faston	Shield	1	Power supply 0 V.
2	Red/Black	2	Dip-switch 1
3	Red	3	Dip-switch 2
4	Green/Black	4	Dip-switch 3
5	Green	5	Dip-switch 4
6	Blue/Black	6	Start Acquisition button
7	Blue	7	(Collector) Allarme / Media
8	White/Black	8	(Collector) Preallarme / Peak
9	White	9	Power supply + 24 Vdc

TERMINAL BLOCK M2 (Alarms)

Terminal 1	: Led for Peak and Average alarm.
Terminal 2	: + 24 V common for led and Buzzer
Terminal 3	: Buzzer for Peak and Average alarm
Terminal 4	: Button ACK Average acoustic Alarm
Terminal 5	: " " " "
Terminal 6	: Relay Contact Normaly Open
Terminal 7	: " " " "

For connections to the relay using a suitable cable to the load voltages and currents.

Terminal block M 3 (Power supply)

Terminal 1	= 230 Vac 50-60 Hz (option 48Vac 50-60 Hz)
Terminal 2	= 115 Vac 50-60 Hz (option 24Vac 50-60 Hz)
Terminal 3	= 0 V.



- Connect the equipment to a power supply network in compliance with current regulations.
- Make connections using three-pole 2 x 1 mm² H02VV-F (PVC) certified cable.
- Fix the cable with the nut on the cable clamp and bind the wires in proximity to the removable terminal board.
- Apply the voltage indicated on the ID label. The power line must have an omnipolar magnetothermal switch with at least 3 mm between contacts, adjusted for an absorption of 3 VA.
- The switch must be to IEC 947-1 and IEC 947-3, easy to access, marked as the dust detector switch and located close to it.

4 TECHNICAL CHARACTERISTICS

- **Power supply** : **115/230 Vac** 3VA, to request **24/48 Vac** or **12-27 Vd** galvanically isolated. (the transformer is protected by thermal fuse)
- **Max contacts load Relay** : **220 Vac maximum 2 A**
110 Vdc maximum 0.5 A, (no inductive load)
- **Maximum load output Led** : **50 mA**
- **Housing** : Dimensions: **110 x110 x 66** mm. Material: **Polystyrene**
Protection: **IP54**

5 WARRANTY

The equipment is guaranteed for the time of one year after delivery, free our headquarter. Mechanical or electrical damages due to incorrect use or installation, are excluded. The warranty lapses in case of tampering of the electronic circuit.