

MIKE4-CAN - Annex



REMBE® Research+Technology Center GmbH

Zur Heide 39, D-59929 Brilon, Germany

www.rembe-rtc.de info@rembe-rtc.de

Cesana AG

Baiergasse 56, CH-4126 Bettingen, Switzerland

www.cesana-ag.ch info@cesana-ag.ch

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Please read this note!



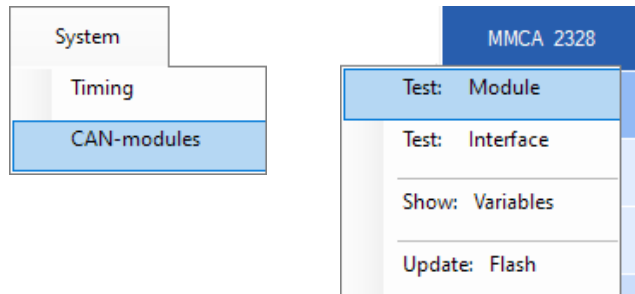
Attention: Please read this safety instruction carefully!

1. CAN - Programme

CAN programs require administrator or service rights.

1.1 Test: Modul „MMCA“

The MIKE contains a powerful tool for self-diagnosis, troubleshooting and calibration.



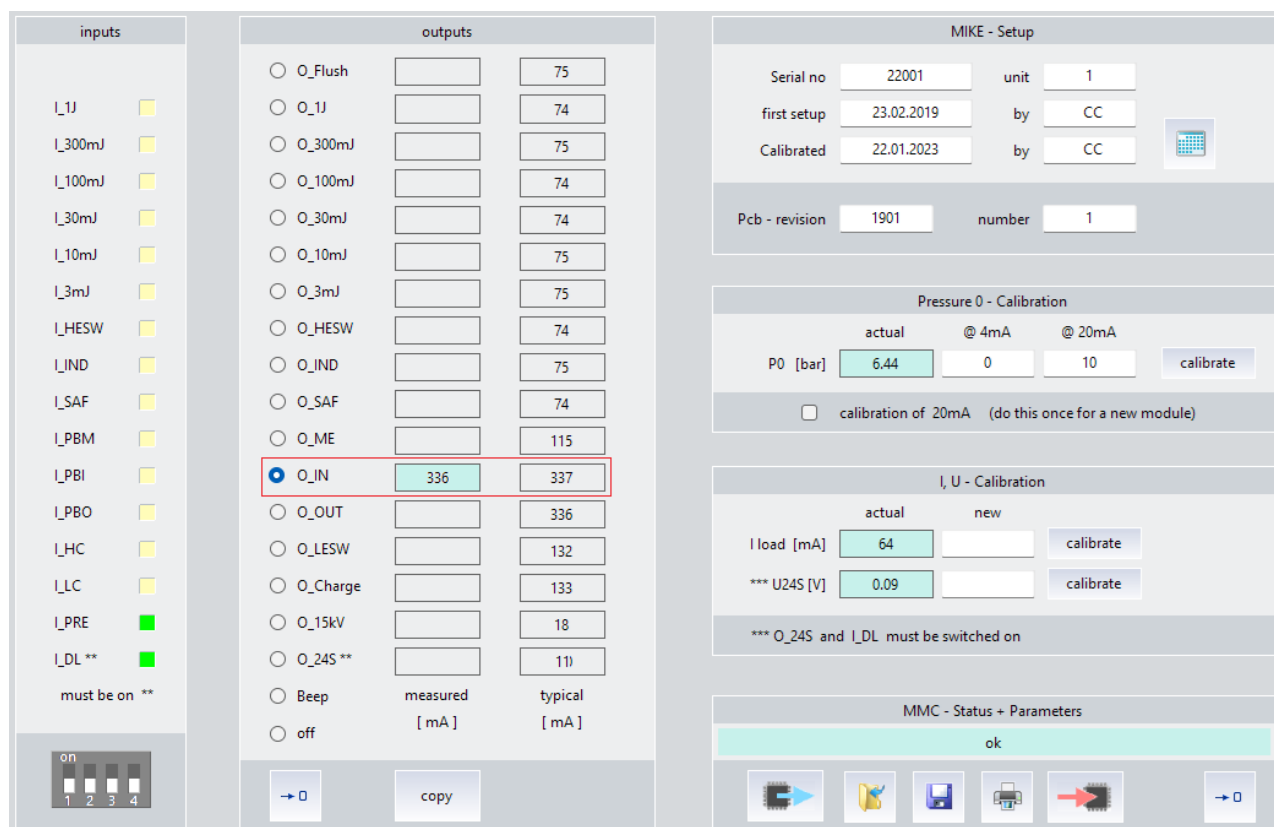
Designations:

MMCA:

MIKE Main Controller Version A

revision z.B. 2328:

Year / calendar week





Calibration has already been carried out at the factory.

Follow-up document (on request): [P081_100.pdf](#) „MMC81A - Endprüfung“

Current measurement

The MIKE has a built-in current measurement. For a new device, we recommend measuring and saving the current typical values for future troubleshooting:

1. Activate all outputs *O_1J ... O_24S* one after the other.
2.  Copy from "*measured*" to "*typical*".
3.  Save the typical values in the MIKE.



Troubleshooting

If the typical values have already been saved, the current measured values can be compared with them later for troubleshooting. Deviations of more than 30% are displayed in red.



Parameters

All parameters are saved in MIKE and not in the PC program. These parameters can be saved in a file. It is advisable to save the parameters before a new calibration, as you can restore the old status at any time in the event of problems by transferring the old parameters from the file back to MIKE. Caution: old values will naturally be overwritten.

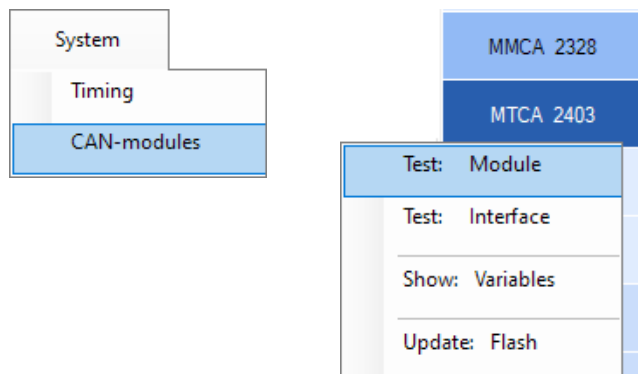
Save parameters

1.  Transfer parameters from the MIKE to the PC program.
2.  Save parameters in a file.
Automatically generated proposal for the file name: e.g. *P081_103.par*
Key for this: *P081 = product code, 1 = MMC, 03 = Pcb-number*

Load parameters

1.  Transfer parameters from a *par*-file to the PC program
2.  Save parameters in MIKE. Attention: old values will be overwritten.

1.2 Test: Modul „MTCA“



Designations:

MTCA:

MIKE Temperature Controller Version A

revision z.B. 2403:

Year / calendar week

Power - Calibration

	raw	actual [A]	new [A]	
<input type="checkbox"/> Base	B1_CS 5	0.006		calibrate
	B2_CS 0			
<input type="checkbox"/> Tube	T1_CS 5	0.018		calibrate
	T2_CS 5			

Temperature - Calibration

	actual	point A	point B	
tube, back [°C]	28.1	20.00	150.00	new
tube, front [°C]	31.3	20.00	150.00	new
base [°C]	27.5	20.00	150.00	new
tube, glass [°C]	26.2	20.00	150.00	new

Flow - Calibration

	actual	@ 4mA	@ 20mA	
flow [l/min]	16.01	0	25	calibrate

☐ calibration of 20mA (do this once for a new module)

Rinse + Inputs + Options

☐ O_rinse

input I-1 ☒ on

input I-2 ☒ on

MTC - Status + Parameters



ok

Navigation icons: Back, Home, Save, Print, Forward, Exit.



Calibration has already been carried out at the factory.

Follow-up document (on request): [P081_300.pdf](#) „MTC81A - Endprüfung“

Save parameters

-  Transfer parameters from the MIKE to the PC program.
-  Save parameters in a file.
Automatically generated proposal for the file name: e.g. *P081_303.par*
Key for this: *P081* = product code, *3* = MTC, *03* = Pcb-number

Load parameters

-  Transfer parameters from a *par*-file to the PC program
-  Save parameters in MIKE. Attention: old values will be overwritten.

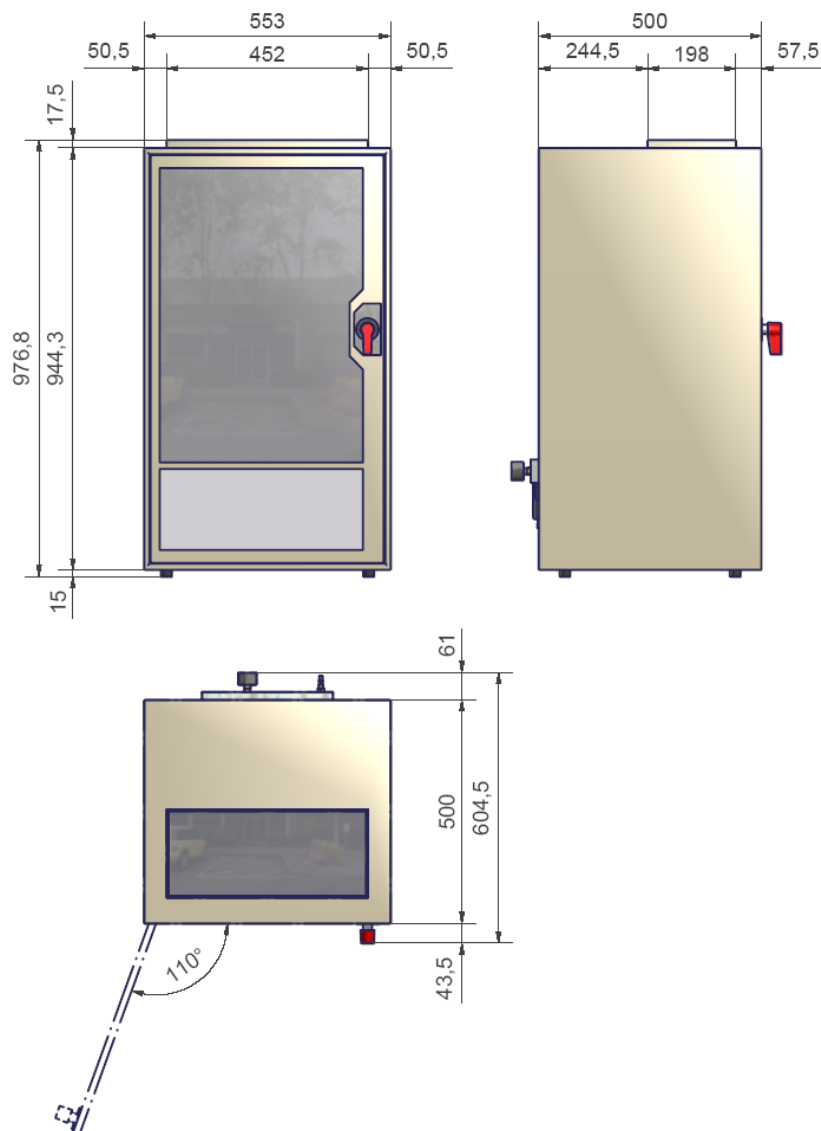
2. Technique

2.1 Technical specifications

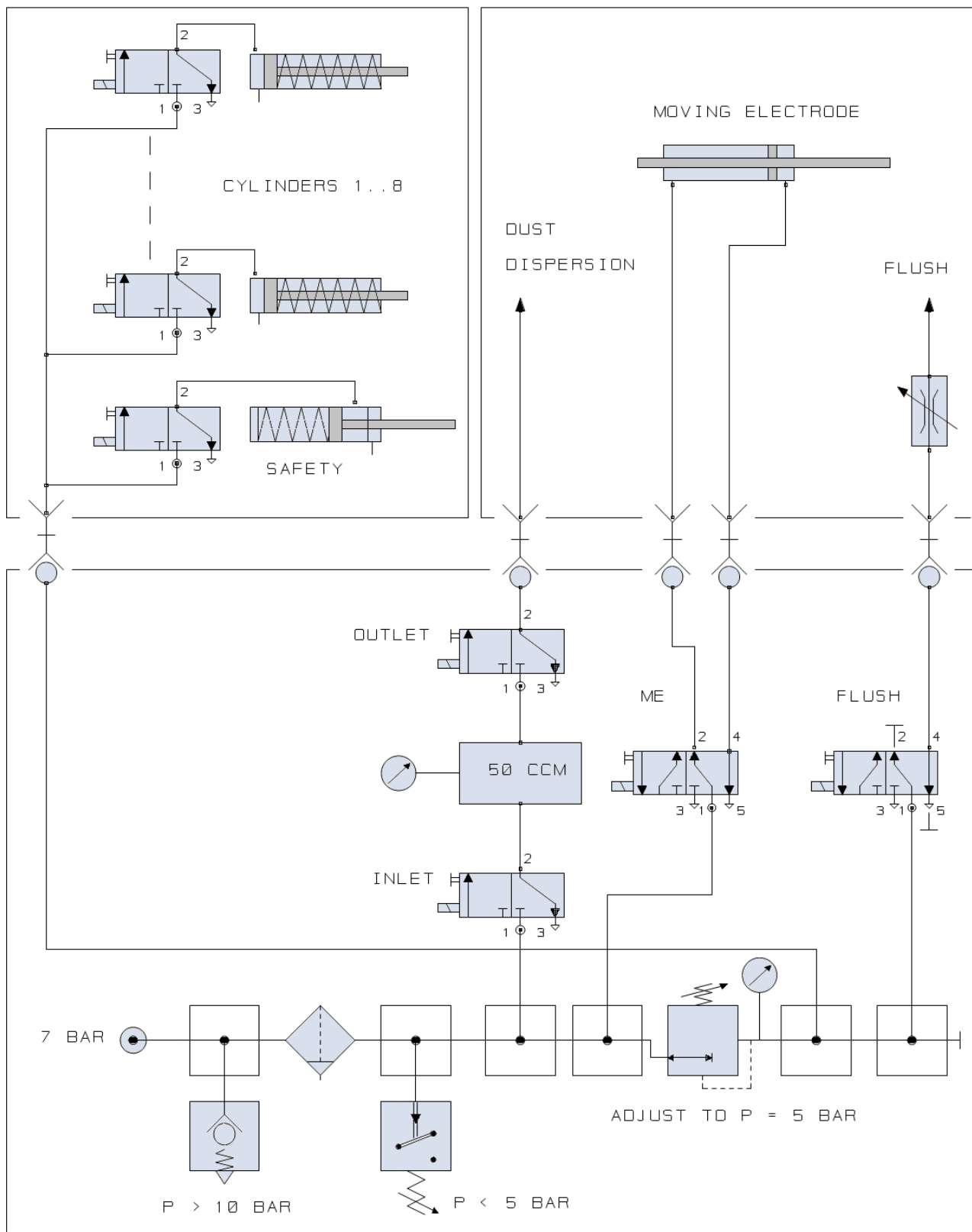
Explosion vessel:	Mod. Hartmann tube, V = 1.2 l
Dust distribution system:	Mushroom-shaped nozzle
Energy range:	1 mJ ... 1 J
Charging voltage (1mJ...10mJ):	15 kV
Charging voltage (30mJ ... 1J):	11 kV
Triggering (1mJ, 3mJ):	High-voltage relay
Triggering (10mJ ... 1J):	Moving electrode
Inductance (with):	1.0 mH
Inductance (without):	0.01 mH
Compressed air connection:	7 bar (over pressure)
Power supply:	100-240 VAC / 600 VA / 50-60 Hz

Dimensions [mm]:

Weight: 86kg

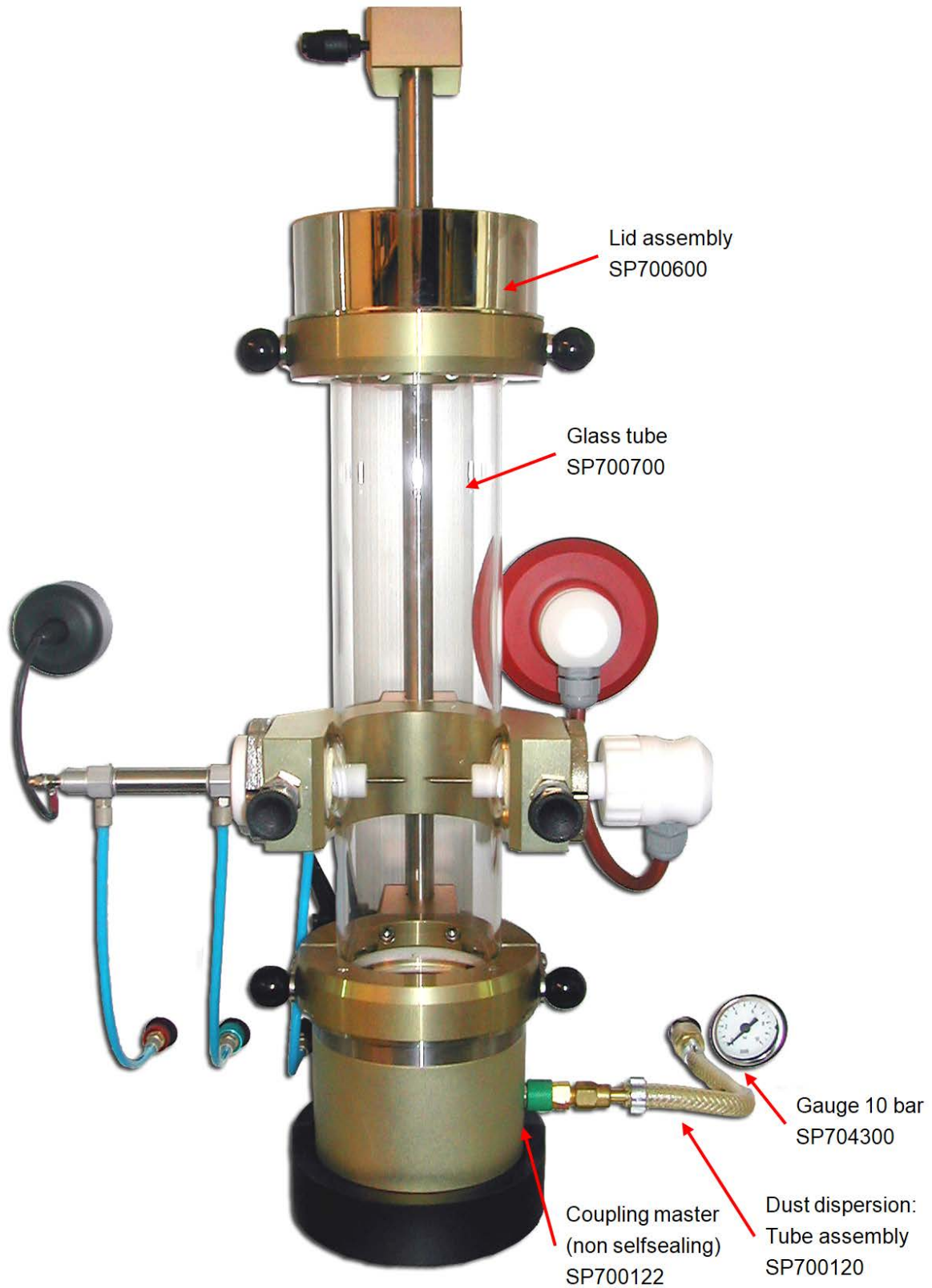


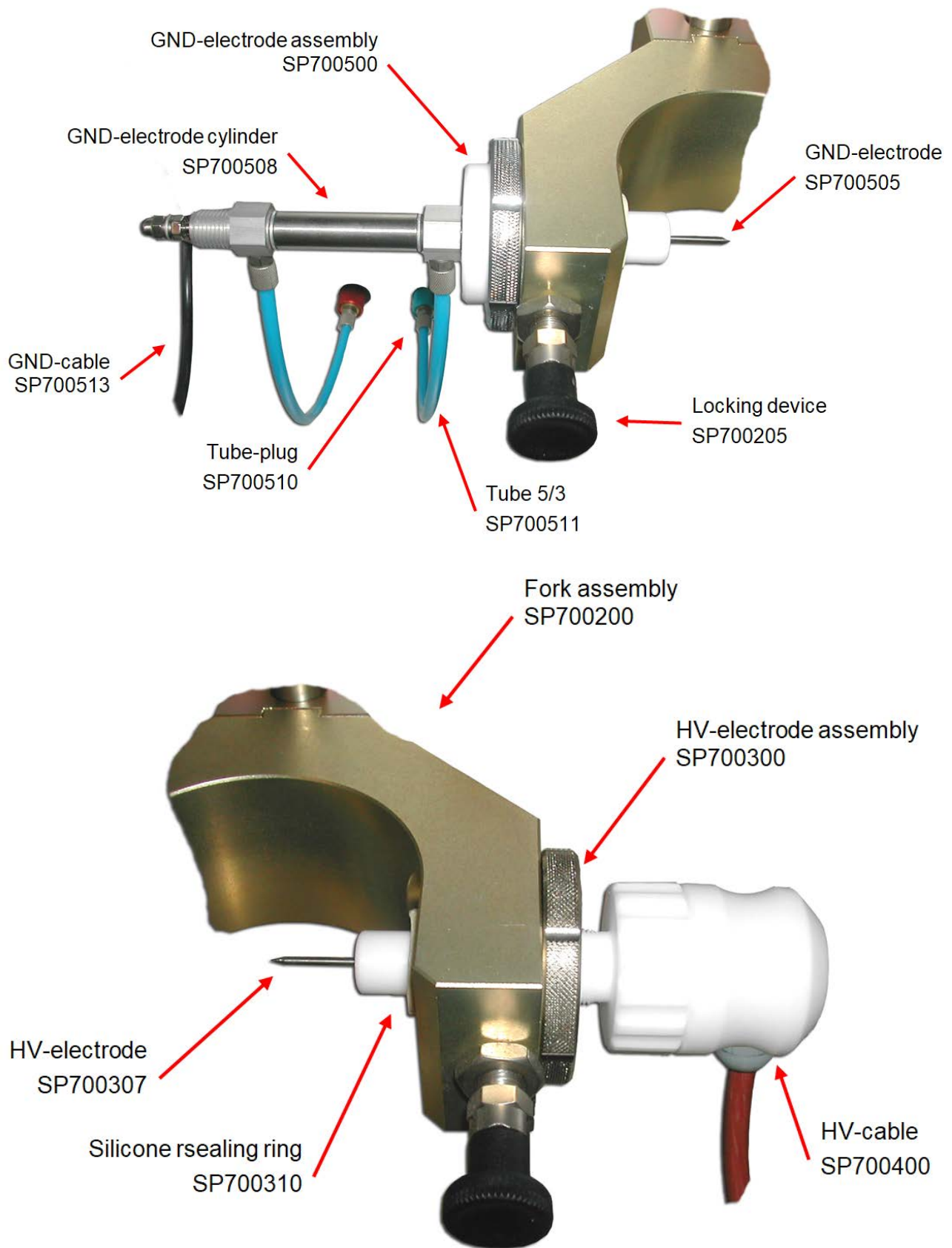
2.2 Pneumatic system



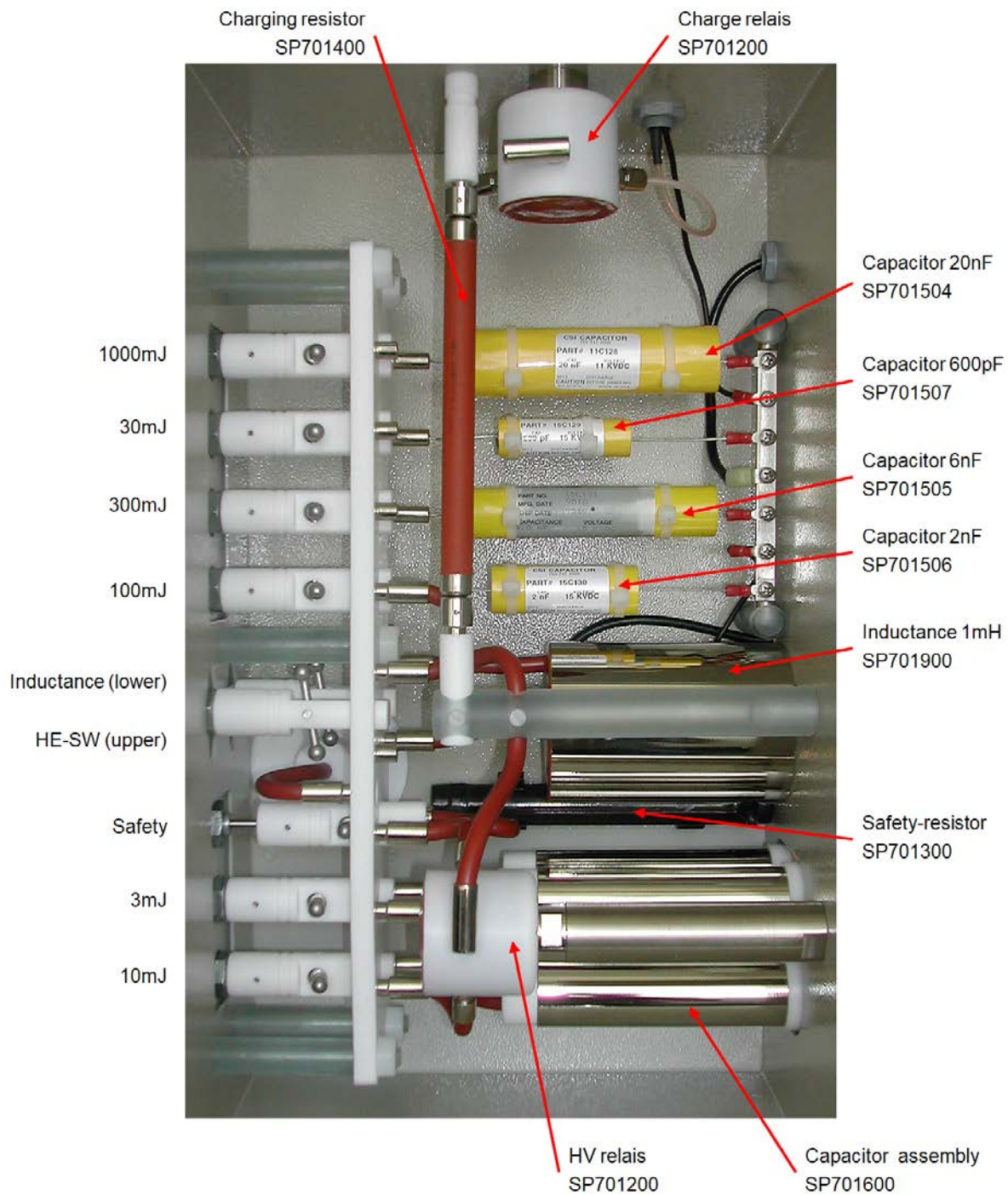
3. Spare parts

3.1 Front view

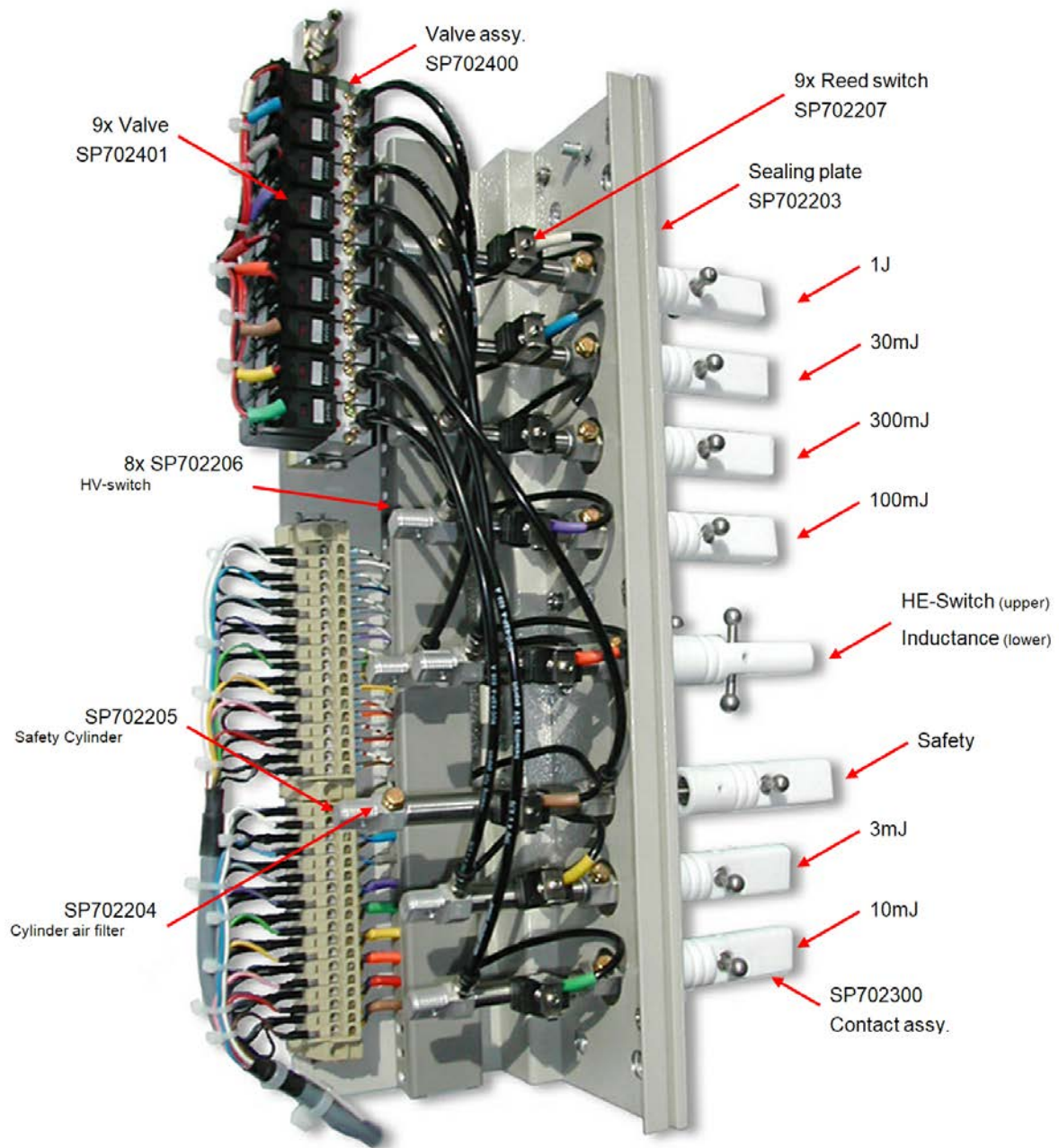




3.2 High-voltage unit



3.3 Cylinder unit



3.4 Valve battery



3.5 Pneumatic unit

