

① opus® dispenser

Serial dispensing made easy.

opus® dispenser for motor-operated dispensing directly out of the text bottle. Available in three volumes (10 ml, 20 ml and 50 ml). In connection with the touch screen and the software opus® dispenser, operation becomes really easy. By means of electronic motor control, opus is a very sensitive precision dispenser and displays great precision also during automatic serial dispensing.

- Menu-structured, simple operation by means of index cards on the external, coloured TFT touch screen, which can also be read well in daylight
- Various areas of application by using high-quality materials (ECTFE, DURAN® glass, FEP); media-structured parts can be steam-sterilised (121°)
- User-friendly feedback system for quick venting without losing the reagent - good for environment and budget
- Up to 9999 dispensing repetitions can be set, pause time between individual dosages selectable to up to 9999 seconds
- Stepper function – dispensing several, also different volume settings from one cylinder filling (10 ml, 20 ml and 50 ml)
- Hassle-free, individual calibration possibilities
- Individual adjustment possibilities e.g.
 - Language selection (DE, UK, FR, ES)
 - Setting the suction speed and dispensing speed in ml/sec (adjustment to viscosity of the medium is possible)
- Method memory, up to 9 different settings, e.g. volume, speed, cycle time,... can be saved
- Accessories (selection):
 - Foot switch to trigger the dispensing process
 - Connection cable USB interface
 - Connection cable to touch screen available in 2000 mm and 5000 mm length, special lengths available
 - System platform made of silicone with bottle holder
 - Batteries as accessories for optional battery operation
- Saving the last settings ensures quick continuing when switching system back on
- With declaration of conformity acc. to DIN 12600
- Quality control according to DIN EN ISO 8655
- Valve seats and ball made of highly pure Al_2O_3 ceramics (99.7%)

Items supplied:

opus® dispenser, complete with screw thread A 45, 3 thread adapters (A 32, A 38 and S 40), 1 suction hose with union nut, return hose, dispenser ejection unit, valve mounting wrench, touch screen operating unit „dispenser“, brown light protection window, power pack, Data-Power cable, single calibration certificate.

Article	Plug	R %	CV %	Order No.
opus® dispenser, 10 ml	EU, US, UK	0.6	0.2	10 37 81010
opus® dispenser, 20 ml	EU, US, UK	0.6	0.2	10 37 81020
opus® dispenser, 50 ml	EU, US, UK	0.6	0.2	10 37 81050

Accessories

Article	Order No.
opus® system platform, grey	10 37 86001
Data power cable, length 0.75 m	10 37 87001
Data power cable, length 2 m	10 37 87002
Data power cable, length 5 m	10 37 87003
Connecting cable for serial interface, RS 232	14 37 64005
Connecting cable USB	10 37 64006
Battery pack	10 37 87100
Screen protectors, 1 pack = 2 pieces	10 37 87200
Foot switch to trigger the dispensing process	10 37 64002
Adapter with NS 12/21 filling tube for funnel	10 37 13741
problem-free filling of medium through a funnel, without unscrewing the basic unit	
Ground adapter NS 29/32	10 37 13742
for direct reagent extraction from a ground bottle	
② Ejection unit with fine tip	10 37 13041
these even finer tips facilitate precision realisation of the finest droplets	
③ Base support	10 37 96001
the base support enables suctioning of the medium directly from separate storage container using a tube	
④ Stand clip for fixing the basic unit	10 37 17003
the stand clip facilitates use of opus® in a stand assembly	
Window inspection, amber	10 37 86060
Discharge valve, ball Al_2O_3 , Hastelloy spring	10 37 16015
Suction valve, ball Al_2O_3 , Hastelloy spring	10 37 16515
Return valve, ball Al_2O_3 , Hastelloy spring	10 37 16615

