SKC Pocket Pump TOUCH

Pocket-size low flow personal sampling pump with touch screen, 20 to 500 mL/min

The Pocket Pump TOUCH samples with sorbent tubes and other low flow media, and fills sample bags from its exhaust port. Constant flow and constant pressure modes cover single and multiple-tube sampling. It is programmed on its touch screen, and with Bluetooth it works with DataTrac Pro and the SmartWave app.



20–500	20 inH_2O	20+ h	±5 %	8.3 oz
Flow range, mL/min	Back pressure at full flow range	Run time at 500 mL/min	Constant flow control	Weight

Performance

Flow range	Constant flow mode: 20–500 mL/min
Compensation range	Constant flow mode: 20–500 mL/min up to 20 inH_2O back pressure
Pressure range	Constant pressure mode: 1–20 inH_2O
Flow control system	Corrects for changes in back pressure, temperature and atmospheric pressure
Accuracy	Constant flow control: ±5 % of set point or ±3 mL/min, whichever is higher Constant pressure mode: ±0.5 inH_2O Atmospheric pressure: ±0.3 inHg; temperature: ±1.0 °C; real-time clock: ±1 %
Flow fault [1]	After 3 to 10 seconds of restricted flow the pump stops and the status LEDs flash red After 20 seconds in fault, auto-restart is attempted up to 5 times
Multi-tube sampling	Up to four tubes simultaneously, in constant flow or constant pressure mode

Operating conditions

Temperature [5]	Operating: 32–113 °F (0–45 °C) Charging: 32–113 °F (0–45 °C) Storage: −4 to 113 °F (−20 to 45 °C)
Humidity	≤ 95 % RH, non-condensing
Altitude	Corrects flow for changes in temperature (32–113 °F, 0–45 °C) and ambient pressure Up to 15000 ft (4572 m) above and down to 2300 ft (701 m) below sea level
Media	Sorbent tubes and other low flow sampling media; sample bags from the exhaust port

Mechanical

Dimensions	3.2 × 3.8 × 1.5 in (8.1 × 9.7 × 3.8 cm)
Weight	8.3 oz (235 g)
Case	IP 64-rated case, polycarbonate with rubberised anti-static overmoulding
Tubing	Requires 1/4 in ID tubing
Bag sampling	Quick-connect adapter 220-200 on the exhaust port accepts 1/4 in OD PTFE tubing
User-replaceable parts	Inlet filter, battery, screen protector and belt clip; any other service by the manufacturer

Electrical and communication

Power	Removable rechargeable Li-ion battery, 3.6 V, 3.3 Ah, 12 Wh, or USB charger
Run time [2]	20+ hours at 500 mL/min up to 20 inH_2O back pressure Extended run times with the charger
Charging time	≤ 10 h (≤ 4.5 h to 80 %); varies with battery capacity and level of discharge
Charging	USB cable with magnetic connector, from a wall adapter, 5-port USB hub, PC or power pack Maximum charge input voltage Um = 5.5 V
PC connection	Low-energy Bluetooth; requires DataTrac Pro USB Bluetooth Adapter 877-94 DataTrac Pro: Windows 7, 8, 8.1 or 10; a USB 2.0 port
Phones and tablets	Low-energy Bluetooth with the free SmartWave app for iOS and Android
Bluetooth	All models listed include Bluetooth; for non-Bluetooth models, ask Analyt-MTC

Compliance

Intrinsic safety [3]	220-1000TC with battery pack P76303 or P76303A: Class I, Groups A, B, C, D; Class II, Groups E, F, G Class III, T4; Class I, Zone 0, Group IIC T4; Ex ia; −20 °C ≤ Ta ≤ 45 °C II 1G Ex ia IIC T4 Ga; IECEx UL 16.0113; DEMKO 16ATEX 1600; UL22UKEX2584
Marks	cULus Listed, E62011; CE 0539; UKCA 0843; RoHS compliant
Standard	Designed to meet ISO 13137:2022
Li-ion battery [4]	Tested to the UN Manual of Tests and Criteria, Part III, subsection 38.3 Rated below 100 Wh; special shipping regulations, UN 3480 and UN 3481 Non-approved, repaired or rebuilt battery packs void the UL listing for intrinsic safety

Display and data

Display	High-contrast backlit LCD: time, date, battery status, flow rate, sample volume Temperature, atmospheric pressure, back pressure, remaining and elapsed run time
User interface	Eight-area capacitive touch screen with auto-dim, screen lock and passcode-secured SecureLock
Status LEDs	Flash red on flow fault; show charging in progress and charging complete
History	Up to 4416 data entries: about 70 hours of one-minute or 360 hours of 5-minute averages The last 16 sample runs as Sample Summaries on the pump
Auto power-off	A pump that is not running powers off after five minutes of inactivity

Pump, kits and parts

Order code	Item
220-1000TC	Pump with Li-ion battery and screwdriver; requires a charger
Ask Analyt-MTC	Manufacturer's kits: starter, single, 3-pack, 5-pack, 5-pack deluxe
220-300A	Single charger: USB cable, magnetic connector, wall adapter, US plug
P75739	Single charging cable, USB, without wall adapter
220-400	5-port USB hub, US plug; up to 5 cables P75739
P76303	Replacement battery pack, Li-ion
224-903	Single kit case, nylon, with shoulder strap
224-915	5-pack kit case, hard-sided

Order code	Item
222-3-1	Tube holder with cover A, 6 × 70 mm
222-3L-1	Tube holder with cover B, 8 × 110 mm
222-3XL-1	Tube holder with cover C, 10 × 150 mm
222-3XD-1	Tube holder with cover D, 10 × 220 mm
224-29A	Tube cover A, 6 mm OD × 70 mm L
224-29B	Tube cover B, 8 mm OD × 110 mm L
224-29C	Tube cover C, 10 mm OD × 150 mm L
224-29D	Tube cover D, 10 mm OD × 220 mm L

Order from Analyt-MTC with the order codes. The manufacturer's kits carry US plugs; ask Analyt-MTC for their contents.

Accessories

DataTrac Pro USB Bluetooth Adapter, free software download	877-94
Quick-connect Bag Sampling Adapter, for the exhaust port	220-200
Low Flow chek-mate Flowmeter, 20–500 mL/min, UK traceable certificate	375-00205
Low Flow chek-mate Flowmeter, ISO traceable certificate (NIST: ask Analyt-MTC)	375-00205S
Adjustable multiple-tube low flow holder, dual	224-26-02
Adjustable multiple-tube low flow holder, tri	224-26-03
Adjustable multiple-tube low flow holder, quad	224-26-04
Constant Pressure Controller, multiple-tube sampling in constant flow	224-26CPC-10

Notes

1. If full airflow is not restored after 5 auto-restarts within 5 minutes, the pump ends the run and displays the Sample Summary.
2. Tested using a 37 mm, 0.8 µm MCE filter with a new pump and battery. Pump performance may vary.
3. Substitution of components may impair intrinsic safety. Do not charge or change batteries in hazardous areas, and do not operate the pump from the charger there. Use only SKC charger P/N 220-300A.
4. The battery may present a risk of fire or explosion when heated above 212 °F (100 °C) or incinerated. Replace it only with battery pack P76303 or P76303A; charging limits 4.2 V DC, 400 mA.
5. Protect the pump from rain and long direct sun outdoors, and let it equilibrate between temperature extremes. Do not clean the screen with alcohol.

ANALYT-MTC Messtechnik GmbH
Sales, service and calibration

www.analyt-mtc.com

German Headquarters
Klosterrunsstraße 18, 79379 Müllheim
+49 7631 5545
info@analyt-mtc.de

French Subsidiary
175 Avenue d'Alsace, 68000 Colmar
+33 3 89 41 47 78
info@analyt-mtc.fr

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