

ESM+ PF23

Intrinsically Safe Powered Air Purifying Respirator



Data Sheet

The ESM+ PF23 is a self-contained, modular powered air purifying respirator designed for light duty industries including pharmaceutical, chemical, laboratory & healthcare.

The PureFlo ESM+ Intrinsically Safe respirator is approved for use in certain types of gas and dust environments where there are potentially explosive atmospheres.

The modular design enables it to be configured to exactly match the required application.



TECHNICAL SPECIFICATION

Weight	1.5kg (nominal)
Head Size Range	54 - 61cm
Protection Factor	Assigned Protection Factor (APF) - 40 Nominal Protection Factor (NPF) - 500
Humidity	0-90% (store out of direct sunlight)
Regulated Airflow	P3 filter - 220 l/m initial, 170 l/m minimum ABEP3 filter - 205 l/m initial, 170 l/m minimum
Temperature Range	Charging: +5°C to +40°C Use: -5°C to +40°C Storage: +5°C to +40°C
Power Supply	Battery: 4-cell, nominal 4.8V, capacity 2.2AH per pack Battery Life: 8 hrs (normal air flow, two fully charged battery packs fitted). Battery Charging: Includes 8-hour NiMH batteries and smart chargers, plus optional 16 station smart multi-charger.

APPROVALS

Respiratory Protection	EN 12941 TH3
Head Protection	BS EN 812
Environmental Protection	IP Rating/Class: IP54Cat2;IP44 ATEX Certificate: CML 18ATEX2404X IECEX Certificate: IECEX CML 18.0213X ATEX Classification: II 3 G D Gas Code: Ex ic IIC T4 Gc Dust Code: Ex ic IIIC T135° Dc Ambient Temperature Range: -5°C ≤ Ta ≤ +40°C
Eye/Face Protection	BS EN 166 2002 1B3

PRODUCT CONFIGURATION

The PureFlo ESM+ PF23 is configurable for use in a variety of applications. Choose from the accessories below to configure to your specific needs.

FILTER OPTIONS



P3 High Efficiency
(PR01020SP)



P3 Nuisance Odour
(PR01500SP)



ABEP3
(PR01025SP)

NECK CAPES



Black
(PR01475SP)



White
(PR01470SP)



Tychem Yellow
(PR01461SP)

BATTERY OPTIONS



2 x Individual Batteries
(PR01040SP)



Multi-charger 16 cell
(PR01043SP)

ELECTRONIC SYSTEMS MANAGEMENT (ESM)

SYSTEM INDICATOR

- Power On:** Constant red visual indicator for approximately 30 seconds changing to constant green when the operating point is reached.
- Low air flow warning:** Fast audible alarm, visual indicator flashing red.
- Normal operation:** Constant green visual indicator.

Gentex Europe, Commerce Road, Stranraer, Scotland, DG9 7DX
Tel: +44 (0) 1776 704421 **Fax:** +44 (0) 1776 706342 **Web:** pureflo.gentexcorp.com
Email: sales@gentexcorp.eu.com **Follow Us on Twitter:** @PureFloSafety

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