

DrägerMan PSS® Merlin™

Taking Fireground Safety to a New Dimension



DrägerMan PSS® Merlin™

System Overview

Entry Control Board Frequency 869.5 MHz	3351145
Entry Control Board Frequency 862.9625 MHz	3351616
Bodyguard® Telemetry Upgrade Kit 869.5 MHz	3350750
Bodyguard® Telemetry Upgrade Kit 862.9625 MHz	3351649
Universal Power Supply Unit	3351804
UK Power Supply Cord	3351805
USA Power Supply Cord	3351807
European Power Supply Cord	3351806
Portable Radio Battery NiMH	3350752
Portable Radio Battery Removal Key	3351902
Radio Repeating Unit 869.5 MHz	3351821
Radio Repeating Unit 862.9625 MHz	3351822
Portable Radio Unit Vehicle Charging Kit	3351681
Radio Batteries Four-Way Charging Adaptor	3351815
Pouch for Portable Radio	3351811
Control Board Re-chargeable NiMH Battery	3351225
Control Board Tripod	3351802
Control Board Support Bracket	3351805
Control Board Battery Charging Adaptor Kit	3351819
Control Board Vehicle Charging Kit	3351810
Control Board Protective Cover	3351812
Weatherproof Operating Manual	3351817
Box of 12 Blank Tallies	3351828
Box of 12 Chinagraph Pencils	3351237
Digital Clock	3351903
Software Kit	3351818
Telemetry Data Link Cable	3351898
Duration Table Labels	On Request

Draeger Safety UK Limited
Ullswater Close,
Kitty Brewster Industrial Estate,
Blyth,
Northumberland,
NE24 4RG
United Kingdom
Tel: 01670 352891
Fax: 01670 356266
www.draeger.com
marketing@draeger.ltd.uk

Dräger
S A F E T Y

CE MARKED

ISO 9001
certified

The Quality Management system of Draeger Safety UK Limited is certified per BS EN ISO 9001 as well as by numerous organisations in many different countries.

DrägerMan PSS® Merlin™

Telemetry at your service



DrägerMan PSS® Merlin™

Telemetry at your service

Your personal safety partner

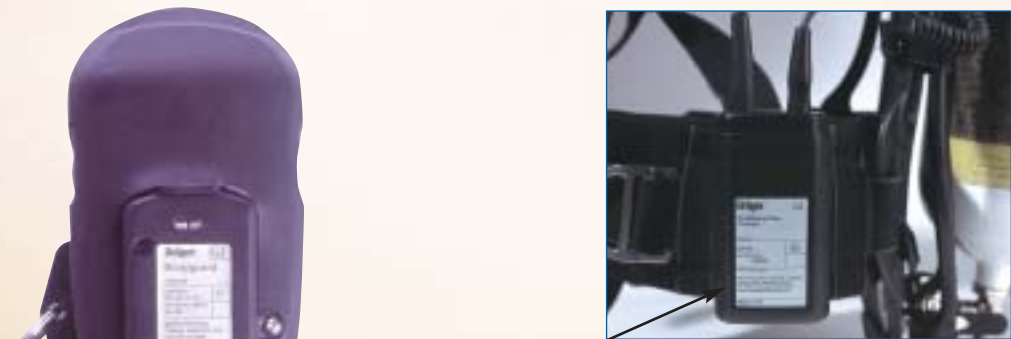
Draeger has always had an outstanding reputation for innovation, design and life-saving technology. The company was founded in 1889 and has been dedicated to the protection of human life ever since.

Manual or semi-manual entry control systems have been a lifeline for the breathing apparatus wearer, ensuring their safety is remotely monitored from outside the incident they are attending. Now Draeger has adapted these systems and made them automatic.

The PSS® Merlin™ is the first entry control system of its kind, offering a level of monitoring and protection not previously available.

Using state of the art radio technology, the DraegerMan PSS® Merlin™ is a fully automatic, electronic breathing apparatus control system. It incorporates a control board, the DraegerMan Bodyguard®II and a portable radio unit. The system allows the Entry Control Officer to monitor the exact status of up to 12 individual team members simultaneously and from outside the incident.

Bodyguard®II is Draeger's advanced electronic monitoring and signalling device, which combines pressure gauge, temperature monitor, whistle warning unit and distress unit into a single instrument. The wearer receives constant status updates, which the PSS® Merlin™ also allows the Entry Control Officer to receive.



The IR Link on the portable radio unit transmits data from the Bodyguard® to the control board outside the incident.



The Entry Control Officer monitors and protects you using these three vital safety features:

- Pneumatic data
- Personal alarm monitoring
- Evacuation commands

- PASS (ADSU) alarm ❶
- Manual alarm ❷
- Voluntary withdrawal ❸
- On-line signal ❹
- Evacuate lamp/Confirmation button ❺
- Warning lamps flash until acknowledged ❻
- Reserved for Emergency Team ❼

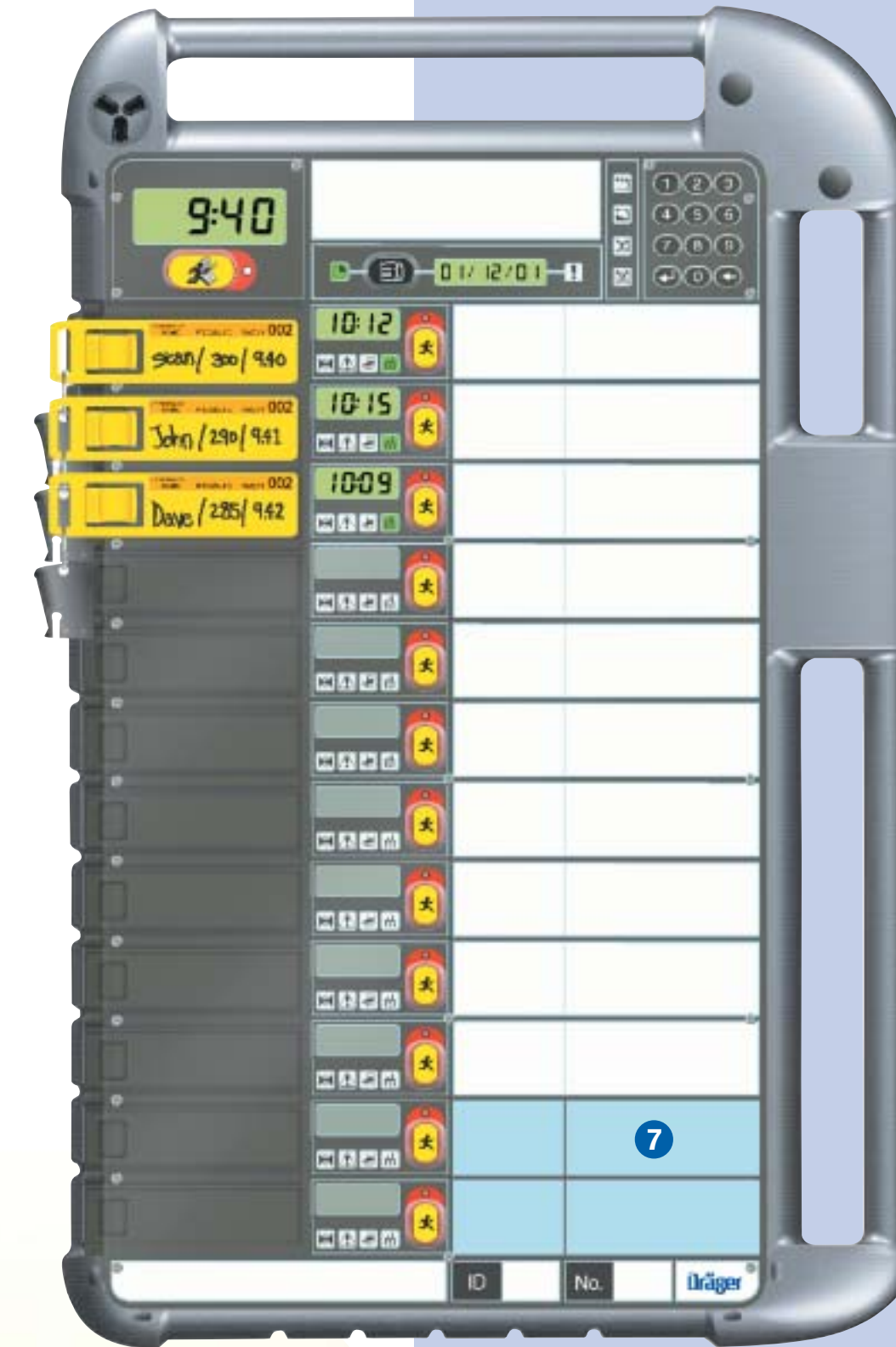


Automatic

The PSS® Merlin™ is fully electronic and automatic, activated simply by inserting the transponder tally. Signals are sent by radio transmission and can be given, received and acknowledged by the firefighter or Entry Control Officer

The PSS® Merlin™ provides:

- Continuous transmission of pressure
- Continuous transmission of time to whistle
- Continuous transmission of temperature
- Automatic distress signal
- Manual distress signal
- Voluntary withdrawal signal
- Individual evacuation command
- Group evacuation command
- The entry control board displays additional data according to your needs:
 - Time of whistle
 - Elapsed time
 - Time to whistle
 - Time of log-in
 - Battery life indicator
 - Time to whistle flashing display prompt



Innovative Design

The PSS® Merlin™ control board is a battery operated self contained unit, with built in radio transmitter and antenna, allowing up to 12 team members per board to be monitored simultaneously. Because the PSS® Merlin™ is continuously updated with the latest status of each team member, the Entry Control Officer can react immediately in an emergency.

The unit is robust and especially designed to withstand the demands of Fire Service daily wear and tear.

Radio Technology

Connection to the Bodyguard® from Draeger's dedicated digital radio unit is via the Infra Red port and is protected by a flame retardant aramid shroud.

The PSS® Merlin™ and Draegerman Bodyguard® are programmed to detect when radio contact has been lost, both the BA wearer and Entry Control Officer are made aware by audible and visual warnings when this has occurred. Signals are cancelled when contact has been re-established.

Adaptable

The unit is moulded with carrying handles for maximum portability and for additional flexibility can also be mounted onto the fire tender.

The PSS® Merlin™ can be tailored with software and data can be downloaded from the unit for post-incident analysis.

APPROVALS	
Telemetry	JCDD40
ADSU	JCDD38
Intrinsic Safety	EN 50020, EN 50014
EMC	EN 61000-4-3 EN 6100-6-2
Breathing Apparatus	PrEN 137
POWER SUPPLY	
Control Board	7.2V rechargeable, Nickel Metal Hydride
Radio	6.5V rechargeable, Nickel Metal Hydride
WEIGHT	
Control Board	approx. 750kg
Radio Assembly	approx. 0.75kg
Bodyguard®	approx. 0.658kg
DIMENSIONS	
Control Board	approx. 450x780x70mm
Bodyguard®	approx. 200x40x70mm
Radio	approx. 110x70x50mm
Port Unit antenna	approx. 60mm

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