

Dräger PSS® Merlin® Modem System

The PSS® Merlin® Telemetry is designed to enhance the safety of the fire fighter during active fire fighting duties – ensuring a disciplined entry control procedure and the accountability of fire fighters during active duties whilst logged into the Merlin Entry Control Board.



- Integrated into backplate leaving waist belt free
- Reduced problems of snagging during stowage
- Utilises a single rechargeable battery
- In-cab charging available for the battery
- 4-way charger with battery health check available

TELEMETRY AT YOUR SERVICE

This technology for life system shares the information available to the firefighter on his Bodyguard® 7000 with the PSS Merlin Entry Control Board positioned outside the emergency area. Distress to wearer and recall signals can be sent and acknowledged including mass evacuation signals. A voluntary withdrawal signal can also be sent and acknowledged indicating the firefighter is leaving the incident. Using state of the art radio technology, the PSS Merlin is a fully automatic, electronic breathing apparatus monitoring system. It incorporates a control board, the Bodyguard and a radio unit. The system allows a team leader to monitor the exact status of up to 12 individual team members simultaneously and from outside the incident. Bodyguard is an advanced electronic monitoring and signalling device of Dräger, which combines pressure gauge, end of service warning, motion sensing and distress signalling

into a single instrument. The wearer receives constant information from the Bodyguard, which is repeated on PSS Merlin Entry Control Board allowing the team leader to have the same real time information.

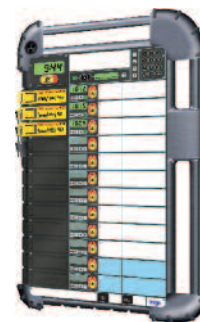
PSS MERLIN MODEM

This is specifically designed for use on Bodyguard 7000 fitted to both PSS 7000 and PSS 5000. This unit is fitted on the backplate under the cylinder affording a more streamline and user friendly fitment. The power supply for this unit is a rechargeable NiMH battery pack which is also used by the Bodyguard 7000. A kit is available which incorporates all parts to update your PSS 7000 or PSS 5000 to give you the enhanced safety of firefighter information outside the emergency situation. An in-cab charger is available to ensure operational readiness at any time. With this design no wires are used giving much improved serviceability.



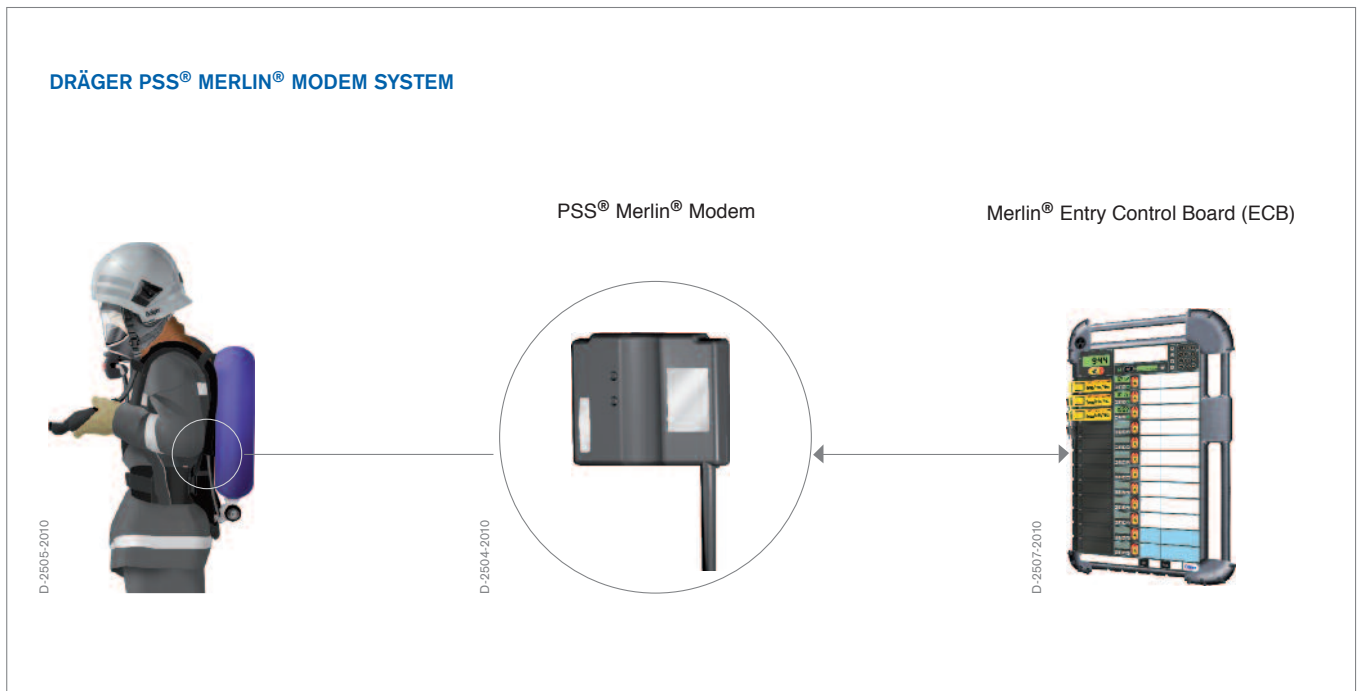
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Dräger PSS® Merlin® Modem



D-2507-2010

Dräger Merlin®
Entry Control Board (ECB)



IN-CAB CHARGER

Complementing our Bodyguard 7000 electronic monitoring system, the PSS Merlin modem utilizes a NiMH rechargeable battery pack centrally integrated within the backplate of the breathing apparatus. The Dräger in-cab charging solution is designed to be wired into the vehicle's own electrical supply and control system, and comprises a central charging unit with input and output leads for this purpose. Connection to the breathing apparatus is by means of a durable clip connector located at the jump seat, which will disconnect automatically as the wearer leaves the cab of the fire vehicle. This intelligent charging system will automatically select either fast or maintenance charging mode, according to the status of the battery. Battery status can also be determined visually by means of the LED mounted on the unit. Maintenance mode is employed once a full charge is attained, and intelligence of the system ensures that overcharging does not occur.

4-WAY BENCH CHARGER

For those users who wish to maintain battery packs outside of the breathing apparatus, Dräger has developed a bench system, including mains power supply, which allows up to 4 battery packs to be charged simultaneously. This unit will also automatically select either fast or maintenance charging mode, according to the status of the battery. Uniquely, this charger can also perform a health check on each pack, resulting in a final calibration to ensure the accuracy of the battery condition signals. We recommend the health check to be run every 6 months, and this is initiated by means of controls on the front of the unit, allowing individual battery packs to be checked. The power supply module provides 12V DC output to the 4-Way charger via a single 2.5 mm jack plug. A green LED situated on the power supply indicates mains input.

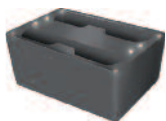



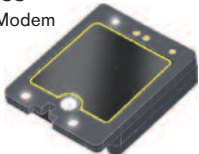

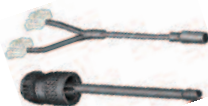

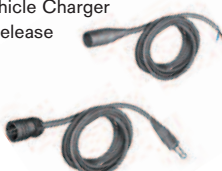
FEATURES

- Designed for use with Bodyguard 7000
- Gives the user the advantage of a single power source
- Integration of the Merlin Modem rather than add on
- Reduces problems of damage during in-cab stowage by means of an improved stowage concept
- Reduces snagging
- Leaves waist belt free

ORDER INFORMATION

PSS® Merlin® Modem System	Freq MHz	Order Number
Merlin Entry Control Board	869.5000	3351145
PSS Merlin Modem (Commisioned to frequency)	869.5000	3357982
Repeater 1	869.5000	3354306
Repeater 2	869.5000	3354562
Merlin Entry Control Board	862,9625	3351616
PSS Merlin Modem (Commisioned to frequency)	862,9625	3357982
Repeater 1	862,9625	3354307
Repeater 2	862,9625	3354563
Merlin Entry Control Board	450-470	3354270
PSS Merlin Modem	450-470	3358410
Repeater 1	450-470	3354789
Repeater 2	450-470	3354786
Portable leaky feeder (100m)		3354787
Universal Power supply		3351804
Power Cord UK		3351805
Power Cord EU		3351806
Power Cord US		3351807
4-Way Battery Charger Repeater		3351815
4-Way Battery Charger PSS Merlin Modem		3357885
ECB Charging adaptor kit		3351819
ECB Vehicle Charger quick release (QR)		3354349
In-Cab Charger QR PSS Merlin Modem		3358063
Battery Additional PSS Merlin Modem		3358121

SELECTED ACCESSORIES/UPGRADES

<p>Battery Charger (Repeater)</p>  <p>D-2501-2010</p>	<p>Repeaters</p>  <p>D-2502-2010</p>	<p>Portable Leaky Feeders</p>  <p>D-2503-2010</p>	<p>4-Way Battery Charger PSS® Merlin®</p>  <p>D-2514-2010</p>
<p>Battery PSS® Merlin® Modem</p>  <p>D-2513-2010</p>	<p>In-Cab Charger PSS® Merlin®</p>  <p>D-2511-2010</p>	<p>ECB Charging Adaptor Kit</p>  <p>D-2509-2010</p>	<p>Universal Power Supply</p>  <p>D-2500-2010</p>
<p>ECB Vehicle Charger Quick Release</p>  <p>D-2512-2010</p>			

TECHNICAL DATA

PSS® Merlin® System	Size	Weight	Volts
PSS Merlin Entry Control Board	450 x 780 x 70 mm	9 kg	7,2
PSS Merlin Modem (PSS 7000 / 5000)	170 x 130 x 30 mm	0,44 kg	6,5
PSS Merlin Repeater	450 x 210 x 100 mm	2 kg	6,5
PSS Merlin Leaky Feeder	320 x 270 x 200 mm	5,3 kg	N/A

APPROVALS

PSS® Merlin® System Approval	JCDD 40
	JCDD 38 ATEX 94/9/EC
	EN 60079 -11:2007 EN 60079-26:2004 EN50303:2000 (not ECB)
	RTTE (EMC) 1999/5/EC
	ETSI EN 301 489 - 3 V1.4.1
	ETSI EN 300 220 - 2 V2.1.2
	EN 60950:2006
	Emark 2004/104/ec In-cab charger



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.