

Transport and transport systems

For the transport of samples and blood products



*The complete solution
for mailing and transport*

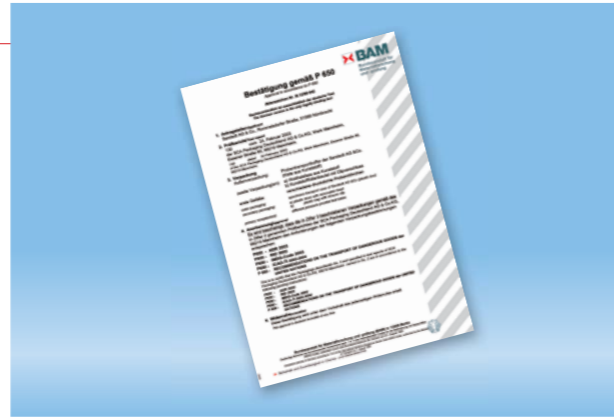


Safe and guideline compliant

Testing and evaluation

The complete packaging system has been positively evaluated by the German Federal Institute for Materials Research and Testing (BAM).

The requirements of the P 650 Packaging Instruction for substance class UN 3373 of the ADR and RID are fully complied with.



Preanalytical components

An insulation layer made of highly-insulating foam material ensures for a stable sample temperature in combination with standard cool batteries (-18°C) that are inserted into special battery bags.

The battery bag with its honeycomb-shaped, fully-synthetic material prevents sample damage due to freezing of the sample on contact with the battery thanks to its insulating layer.



Variable

The transport case is available as a **wide aperture version** or with a **plastic bag and closure clip**, which is particularly suitable for the transport of samples in racks.

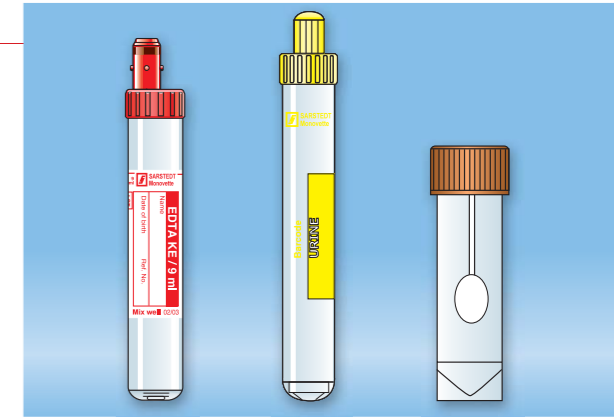


Integrated rim in the insulation material for optimal positioning of block racks with handles.

Primary container

For liquids, the primary container must be capable of withstanding an internal pressure that results in a pressure difference of at least 95 kPa (0.95 bar) without loss of fluid.

For this reason, it is necessary that only primary containers with a certificate of differential pressure tightness are used.



Secondary packaging

A wide aperture and a plastic bag with closure clip are available as secondary packaging. The wide aperture has a sample capacity of approx. 250-300 primary tubes when subpackaged in bags. Unracked, the aperture holds approx. 400-450 primary tubes.

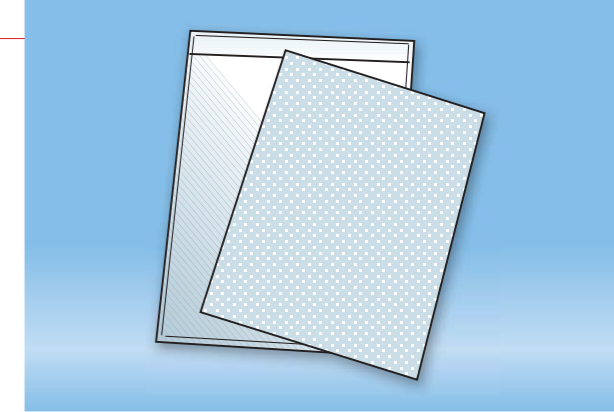
The plastic bag variant is primarily intended for sample transport in block racks. The sample capacity is 4 block racks each with 50 samples.



Absorbent material

Superabsorber with minimal space requirement.

- Capacity: approx. 1,2 ml
- There is a superabsorber in each case
- Additional superabsorbers may have to be added depending on the sample quantity

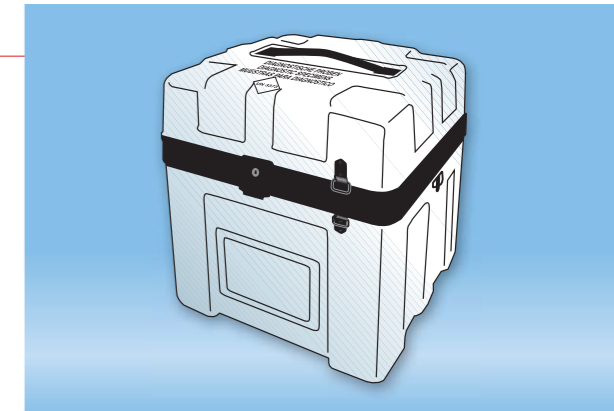


Outer packaging

The transport case provides optimum protection for the inner tubes thanks to a resistant polyethylene cover.

Features:

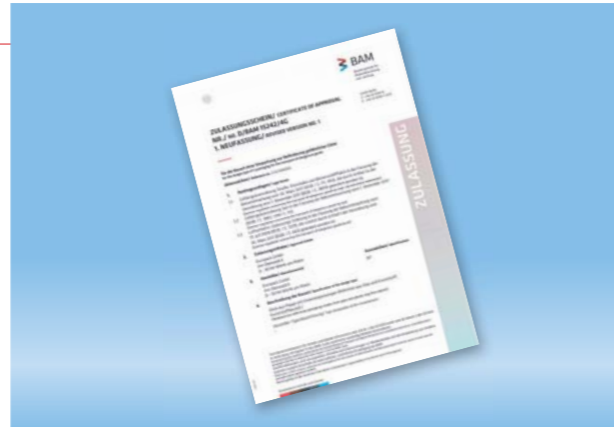
- Central single-hand fastening
- Rings for security tags or carrier straps
- Address window for providing identification of the case



Testing and approval

The mailing boxes have been tested and approved by the German Federal Institute for Materials Research and Testing (BAM).

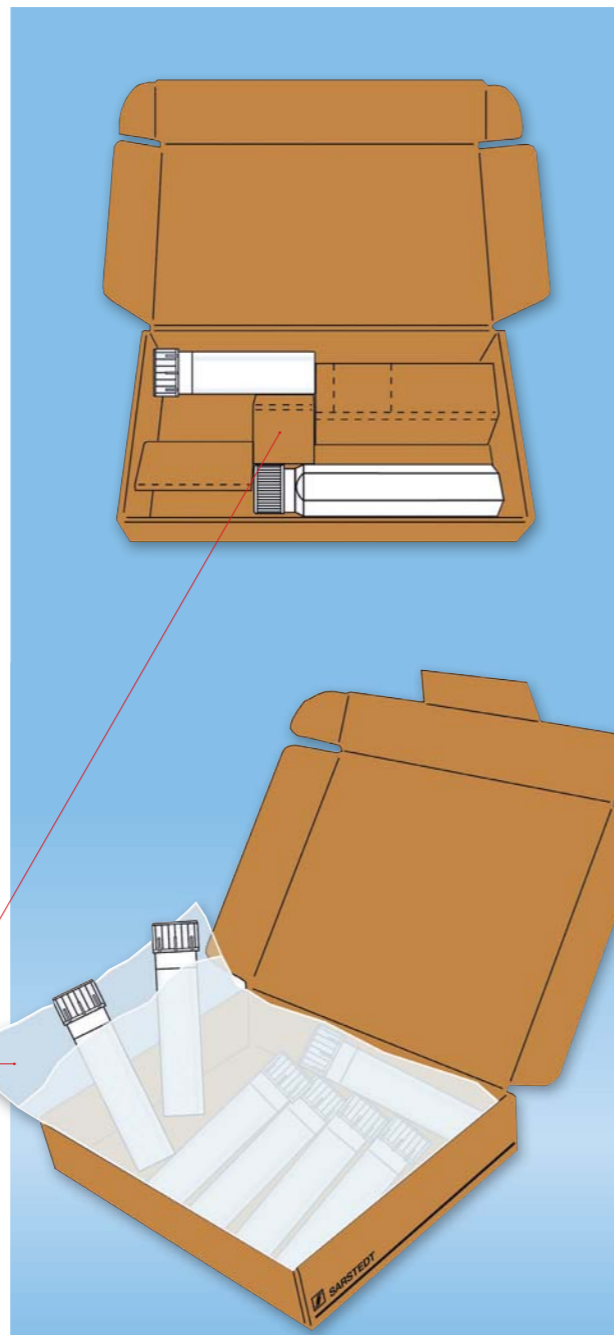
The requirements of the P 650 Packaging Instruction for substance class UN 3373 of the ADR, RID ICAO and IATA are fully complied with.



- Cost efficiency
The box is a cost-effective outer packaging.

- Variable
The box is capable of accommodating all Sarstedt mailing containers and flasks in the various dimensions on offer.

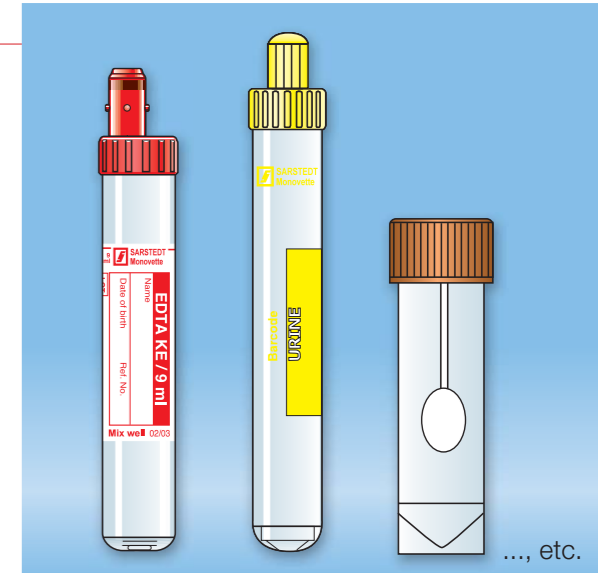
- Preanalytical components
Depending on the version, the integrated locking mechanism and the enclosed foam bag allow for optimal fastening and padding of the secondary vessel, so that the sample material is not exposed to unnecessary mechanical strain.



Primary container

For liquids, the primary container or secondary packaging must be capable of withstanding an internal pressure that results in a pressure difference of at least 95 kPa (0.95 bar) without loss of fluid. In all cases, the first vessel must be entirely leakproof.

For this reason, it is important that the correct combination of secondary packaging and primary container be selected.



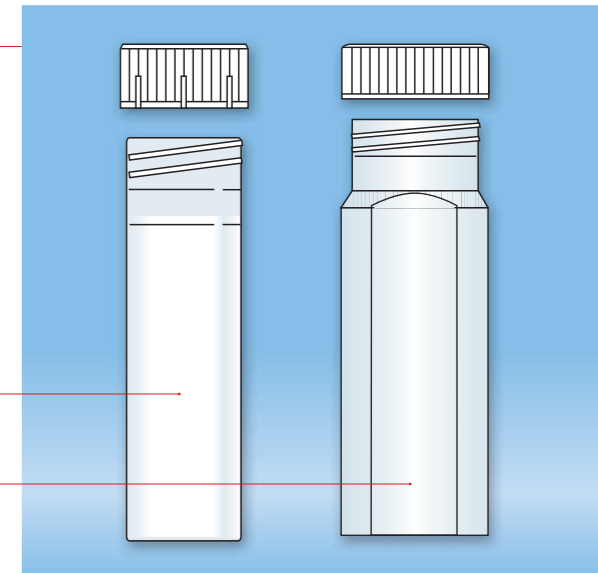
Secondary packaging

When transporting liquids, only plastic primary containers that have been shown to be leakproof at a pressure difference of 95 kPa are to be used.

In addition, absorbent material must be inserted between the primary container and secondary packaging. The mailing containers and mailing bottles are all available with absorbent liners.

The round mailing containers are leakproof at a pressure difference of 95 kPa.

The square mailing containers are leakproof.



Outer packaging

The mailing box provides optimum protection for the inner tubes and the rigid case fulfils the postal regulation requirements.

The box is available in three sizes.

A customised mailing address label is available on request. It is also possible to use Sarstedt self-adhesive labels with and without the mailing address.





Transport case with wide aperture

Order No.	Article name	Packaging
95.1715	Transport case T 15 Wide aperture as secondary packaging incl. 1 superabsorber pack L x W x H 395 x 395 x 435 mm, empty weight approx. 4.5 kg	1/case



Transport case with plastic bag

Order No.	Article name	Packaging
95.1717	Transport case B 17 Plastic bag with closure clip as secondary packaging incl. 1 superabsorber pack L x W x H 395 x 395 x 435 mm, empty weight approx. 4.0 kg	1/case
95.1717.003	Transport case B 19 without lateral rims, otherwise as B 17	1/case



Transport case with plastic bag

Order No.	Article name	Packaging
95.1717.011	Transport case B 13 Low version for single tier block racks, otherwise as B 17 L x W x H 395 x 395 x 280 mm, empty weight approx. 2.8 kg	1/case



Accessories

Order No.	Article name	Packaging
95.1712	Superabsorber pack approx. 1.2 l fluid intake	100/case
95.1713	Bag 270 x 270 x 600 x 0.1 mm	25/case
95.1714	220 mm clip closure	25/case
95.1725	Battery bag (without batteries), insulation bag for standard cool batteries, 110 x 205 x 2.6 mm	12/case
95.978	Plastic bag 230x310 mm with adhesive tape (not leakproof) For sub-packaging of sample tubes, unprinted Customised special prints possible from 50,000 pieces	1,000/case



Block racks with and without handle strip

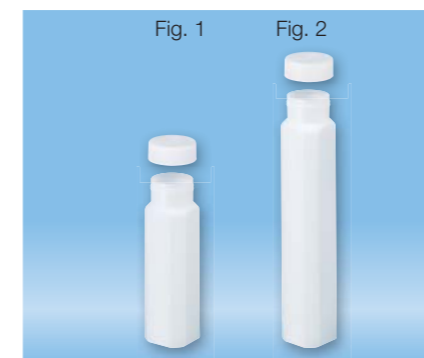
Order No.	Article name	Packaging
93.852	Block rack D 17 for tubes up to Ø 16.8 mm, grey	20/case
93.852.171	Block rack D 17 for tubes up to Ø 16.8 mm, red	20/case
93.852.172	Block rack D 17 for tubes up to Ø 16.8 mm, yellow	20/case
93.852.173	Block rack D 17 for tubes up to Ø 16.8 mm, green	20/case
93.852.174	Block rack D 17 for tubes up to Ø 16.8 mm, blue	20/case
93.852.175	Block rack D 17 for tubes up to Ø 16.8 mm, orange	20/case
93.851	Block rack D 17 with handle strip for tubes up to Ø 16.8 mm, grey	12/case
93.851.171	Block rack D 17 with handle strip for tubes up to Ø 16.8 mm, red	12/case
93.851.172	Block rack D 17 with handle strip for tubes up to Ø 16.8 mm, yellow	12/case
93.851.173	Block rack D 17 with handle strip for tubes up to Ø 16.8 mm, green	12/case
93.851.174	Block rack D 17 with handle strip for tubes up to Ø 16.8 mm, blue	12/case
93.851.175	Block rack D 17 with handle strip for tubes up to Ø 16.8 mm, orange	12/case



Mailing container, round

*Order numbers for coloured caps available on request

Order No.	Article name	Packaging	
Fig. 1	78.898	Mailing container 126 x Ø 30 mm with absorbent liner, without screw cap	250/case
	65.679	Standard screw cap, neutral*	250/case
	65.731	Special screw cap for Port-A-Cul tubes, neutral	250/case
	78.670	Separate absorbent liner	2,000/case
Fig. 2	78.892	Mailing container 85 x Ø 30 mm with absorbent liner, without screw cap	500/case
	65.676	Standard screw cap, neutral*	500/case
	78.684	Separate absorbent liner	2,000/case
Fig. 3	78.897	Mailing container 114 x Ø 44 mm with absorbent liner, without screw cap	250/case
	65.678	Standard screw cap, neutral	250/case
	78.669	Separate absorbent liner	1,000/case



Mailing container, square

Order No.	Article name	Packaging	
Fig. 1	78.573	114 x Ø 28 mm, with absorbent liner, incl. cap	250/case
	78.572	114 x Ø 28 mm, without absorbent liner, incl. cap	250/case
Fig. 2	78.574.500	176 x Ø 28 mm, with absorbent liner, incl. cap	250/case
	78.574	176 x Ø 28 mm, without absorbent liner, incl. cap	250/case



Mailing boxes

Order No.	Article name	Packaging
95.900	Depending on the size of the mailing container, suitable for 1-4 mailing containers/bottles up to Ø 30 mm locking mechanism 198 x 107 x 38 mm	50/case (not assembled)
95.901	Depending on the size of the mailing container, suitable for 1-4 mailing containers/bottles up to Ø 44 mm Locking mechanism 198 x 107 x 50 mm	50/case (not assembled)
95.902	Depending on the size of the mailing container, suitable for 1-10 mailing containers/bottles up to Ø 30 mm Attached foam bag 220 x 170 x 40 mm	50/case (not assembled)

Individual custom printing on request, minimum order 10,000 pcs.

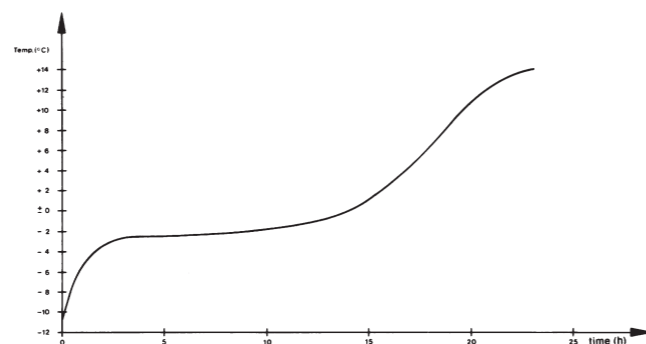


Mailing bag

Order No.	Article name	Packaging
95.1410	PE mailing envelope 180 x 310 mm, unprinted	1,000/case
95.1411	PE mailing envelope 123 x 310 mm, unprinted	1,000/case
84.1412.033	Address label 145 x 98.5 mm, printed with "Exempt medical sample"	1,000/case

Kraft paper mailing envelopes and address labels available with customised printing for orders of 10,000 pieces or more

For the cooled transport of samples in accordance with P 650



Transport container for two sample tubes with dimensions of a maximum of 107 x 16.5 mm, e.g., 9 ml S-Monovette® or 13 ml screw cap tube 101 x 16.5 mm.

Efficient cooling of the samples over several hours can be achieved by storing the containers in a freezer compartment (see figure above).

Not suitable for samples that cannot be frozen.

By using the appropriate mailing box and absorbent liners (see below), the cool transport container fully complies with the P 650 Packaging Instructions.

The container should be changed after five years.

Order No.	Article name	Packaging
95.995	Cool transport container incl. Styrofoam packaging and rubber band	6/case
95.1011	Styrofoam packaging as single unit with rubber band	42/case
78.671	Absorbent liners for use in cool transport containers	100/bag, 2,500/case

Type-tested outer packaging in accordance with P 650

Appropriate mailing packaging for cool transport containers. In combination with foam bags, the mailing box can also be used as a mailing and transport system for up to 16 mailing containers.



Order No.	Article name	Packaging
95.903	Type-tested mailing box for cool transport containers, depending on the size of the mailing container, suitable for 1-16 mailing containers/bottles up to Ø 44 mm	50/case
95.1710	Single foam bag, 185 x 230 mm	200/case

For the internal transport of samples



Transport case for the safe transport of samples within a hospital or laboratory.

In order to meet the occupational health and safety requirements, in accordance with TRBA 100, transport cases are offered that are optimally adapted to the internal logistics of the hospital or laboratory.

The transport cases have a capacity of either 50 or 100 sample tubes or swabs, which can be transported in block racks.

Order No.	Article name	Packaging
95.1720.011	Transport case 270 x 170 x 215 mm with transparent lid, suitable for one D 17 block rack for 50 samples	1/case
95.1720	Transport case 360 x 310 x 275 mm with insert for two D13 block racks or D 17 block rack for up to 100 samples	1/case

Plastic bag with adhesive tape

The plastic bags are ideally suited for the sub-packaging of samples collected by transport service.

The bags in A4 format offer sufficient space for several sample tubes as well as request forms and can be closed with adhesive tape.

From a purchase quantity of 50,000 pieces, the bags can be supplied with customised printing.

Order No.	Article name	Packaging
95.978	Plastic bag 230x310 mm with adhesive tape (not leakproof), unprinted	1,000/case
95.978.xxx	Plastic bag 230x310 mm with adhesive tape (not leakproof), with custom. Printing (minimum purchase volume 50,000 pieces)	1,000/case



Safety



Safe
Patented locks on all sides prevent unintentional opening of the TRANS Control



Additional eyelets on the edges facilitate sealing



Protective caps prevent unintentional opening of the element



Extendable
Capacity expansions through TRANS Control frames result in maximum transport quantities



Simple
The physical condition of the fluid and a temperature indicator (only at 4°C and 22°C) show the availability of the TRANS Control element/frame

TRANS Control is used for the transportation of temperature-sensitive blood products such as erythrocyte concentrates, thrombocyte concentrates, fresh frozen plasma etc.

The goods to be transported are kept at a constant temperature level without active tempering.

The temperature range is maintained by a coolant, which is found in the pre-tempered elements of the TRANS Control.



Space-saving
Space-saving stacking through moulded holders on the outside

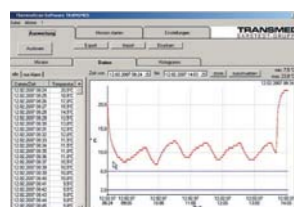
Documentation

with a calibration certificate

... for your blood product transport or refrigerator



- The temperature progression of each product can be tracked with the help of the ThermoScan Data Logger
- Temperature values are stored together with the date and time
- Configuration of the measurement intervals are made by the user with the help of the ThermoScan software:



- ✓ Measurement intervals adjustable between 1 and 255 minutes
- ✓ Adjustable limit values for maximum and minimum temperatures
- ✓ Up to 2048 measurements possible
- ✓ Reading of the measured values and configuration of the data logger via PC
- ✓ Manipulation of measured values is not possible

Transport

Optimal

Spacious and sealable refrigerated transport box with additional special insulation for optimal and safe short and long-term transportation of your blood products.



Mailing











Temperature stable

Thick-walled special Neopor boxes that hold up to three TRANS Control elements.

These boxes provide temperature stability and thus delivery times of up to 48 hours, depending on the external temperature.



TRANS Control

Article name	Colour	Order No.
TRANS Control 4° Twin element for the transport of erythrocyte concentrates at temperatures of 2° to 6°C		97.8750.000
TRANS Control 4° Frame To expand the capacity of the TRANS Control 4°		97.8750.001
TRANS Control 22° Twin element for the transport of thrombocytes and whole blood at room temperatures (22°C)		97.8750.010
TRANS Control 22° Frame To expand the capacity of the TRANS Control 22°		97.8750.011
TRANS Control 37° Twin element for the transport of blood products at temperatures of 37°C		97.8750.015
TRANS Control 37° Frame To expand the capacity of the TRANS Control 37°		97.8750.016
TRANS Control -18° Twin element for the transport of frozen blood products at temperatures of -18°C		97.8750.018
TRANS Control -18° Frame Frame to expand the capacity of the TRANS Control -18°		97.8750.019
TRANS Control -30° Twin element for the transport of FFP at temperatures of -30° to -32°C		97.8750.020
TRANS Control -30° Frame To expand the capacity of the TRANS Control -30°		97.8750.021

For transport

Article name	Order No.
Transport box For four TRANS Control twin elements or one TRANS Control twin element with three TRANS Control frames with additional insulation, sealable, plastic inner part in the base and cover, carrying handle	97.8750.050

For mailing

Article name	Order No.
TRANS Control Mono Box Insulated Neopor box for mailing one TRANS Control	97.8750.140
TRANS Control Triple Box Insulated Neopor box for mailing three TRANS Control or one TRANS Control with two TRANS Control frames	97.8750.141
TRANS Control Mono/Triple Box Insulated Neopor box for mailing two TRANS Control or one TRANS Control with one TRANS Control frame	97.8750.142
Covering box for Mono/Triple Box Mailing case to protect the mailing boxes with item numbers: 97.8750.140, 97.8750.141 and 97.8750.142	97.8750.143

For documentation

Article name	Order No.
ThermoScan Data Logger TM Temperature data logger to monitor transport conditions, area of use -40° to +85°C, Dimensions: diameter 17 mm, height 6 mm, includes calibration certificate	97.8750.151
ThermoScan Port Adapter 9-Pin connection for serial PC-COM port	97.8750.153
ThermoScan Reading Unit Reading unit for connection to port adaptor (item no. 97.8750.153)	97.8750.154
ThermoScan USB Port Adapter To connect the ThermoScan reading unit to the USB port of a PC	97.8750.156
ThermoScan TRANSMED software Software for the configuration and evaluation of the ThermoScan Data Logger on Microsoft Windows®; with graphic representation and export function	97.8750.157
ThermoScan Set Contains the item numbers: 97.8750.151, 97.8750.153, 97.8750.154 and 97.8750.157	97.8750.160
ThermoScan Set USB Contains the item numbers: 97.8750.151, 97.8750.154, 97.8750.156 and 97.8750.157	97.8750.161

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