


Guideline for suppliers of Testo Sensor GmbH	
TLB 741 01 Standard EN – Transport, Logistics and Branding specification (TLB)	

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	Name	Bereich	Datum
Created	Oliver Walter	Supply Chain / Logistic	31.03.2024
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Further applicable documents

	General Purchasing Conditions Testo Sensor GmbH
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Document History

Version	Changes	Valid until
01	Created	31.12.9999

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I. Foreword

The following guidelines and regulations for the delivery of goods to Testo Sensor GmbH (TSG) as supplementary contractual agreements to the General Terms and Conditions of Purchase.

II. Target of the Transport, Logistics and Branding specification (TLB)

Continuous improvement of business processes is a key strategy at TSG. This applies not only to our products, but also to internal and external logistics processes. The goal of TSG is to ensure a rational and smooth flow of materials between suppliers and the individual manufacturing locations (internal and external).

This objective is to be achieved by means of the following specifications:

- Standardised dimensions
- Standardised labeling (products / boxes / pallets / accessories / other)
- Optimal packaging design
- Homogeneous and coordinated quantities in the packaging.

The TLB is also used to ensure product traceability and to determine by whom, at what time and with what tools the product has been manufactured.

III. Scope of the TLB

These Transport, Logistics and Branding specification apply to sample, pre-serial and serial deliveries to TSG, unless otherwise specified in the product specification or drawing.


IV. Material number structure TSG

In TSG, materials are divided into three different material groups. All three material groups differ in their material number structure.

The three material groups are:

- **Series Material with fixed material number** (nnnn nnnn or nnnn nnnn nn or 87nnnn nnnn):
TSG defines Series Material as products that have been usually individually developed for the customer and are regularly ordered by the customer.
- **Standard Portfolio Material and accessories** (80nnnn nnnn):
The Standard Portfolio Material consists of standardised products that are usually offered in TSG's own webshop. For better differentiation from the other products, TSG uses its own material number structure for these materials.
- **Samples** (0629 7777):
TSG uses a separate material number for samples, which is only used for sample deliveries.

For each material group, there are special features that need to be considered. Therefore, in the following chapters of the TLB, the specifications to be followed in case of deviations from the general standard are given for each material group.

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V. Shipping documents

The delivery note is a document that provides information about the parts delivered. It must contain the following information:

- Date of delivery note
- Order date
- TSG order number
- TSG article number (additionally as barcode) and TSG article description per delivery item
- Indication of the drawing index from the purchase order (if available)
- Total weight of the consignment
- Number of pieces delivered per delivery item and any partial deliveries
- Customer number of TSG at the supplier

The delivery documents (shipping documents) must be attached to the outside of the shipping package, and have to be clearly visible. Invoices, order confirmations and delivery notes must not be placed into the packages.

VI. Consequences of disregarding the TLB

Failure to comply with the specifications of these general TLB may result in a complaint and will have a negative impact on the supplier's rating. In addition, any costs incurred as a result of non-compliance with these TLB will be immediately charged to the supplier. Deliveries that do not meet the defined requirements will be rejected by TSG. The supplier will bear the cost of the return delivery.


1 Labeling of the product

1.1 Series Material – lasered (nnnn nnnn / nnnnn nnnn nn / 87nnnn nnnn)

Unless otherwise specified in the technical drawing, each product shall be marked with the TSG material number [n], followed by the revision number [x] and details of the place/line of manufacture [L], the date of manufacture [ddmmyy] and, if possible, the hour of manufacture [h] (24h). The marking (lasered) may be applied directly to the product, on the sleeve, cable, shrink tube or connector. Detailed requirements can be found in the “Specification” table in the technical drawing. Additional information, such as customer specifications for marking or labeling, is also shown in this table.

The information can be placed side by side or below each other. If a Customer Part No. [customer part no.] is given in the specification, this must be included in the marking.

Eight-digit item number (include customer part no.):	
Side by side	Among each other
customer part no. - nnnn nnnnx LL-ddmmyy-hh	customer part no. nnnn nnnnx LL-ddmmyy-hh
Eight-digit item number (without customer part no.):	
Side by side	Among each other
nnnn nnnnx LL-ddmmyy-hh	nnnn nnnnx LL-ddmmyy-hh
Ten-digit item number (nnnn nnnn nn) (include customer part no.):	
Side by side	Among each other
customer part no. - nnnn nnnn nnx LL-ddmmyy-hh	customer part no. nnnn nnnn nnx LL-ddmmyy-hh
Ten-digit item number (nnnn nnnn nn) (without customer part no.):	
Side by side	Among each other
nnnn nnnn nnx LL-ddmmyy-hh	nnnn nnnn nnx LL-ddmmyy-hh
Ten-digit item number (87nnnn nnnn):	
Side by side	Among each other
87nnnn nnnnx LL-ddmmyy-hh	87nnnn nnnnx LL-ddmmyy-hh

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1.2 Series Material – labeled (nnnn nnnn / nnnnn nnnn nn / 87nnnn nnnn)

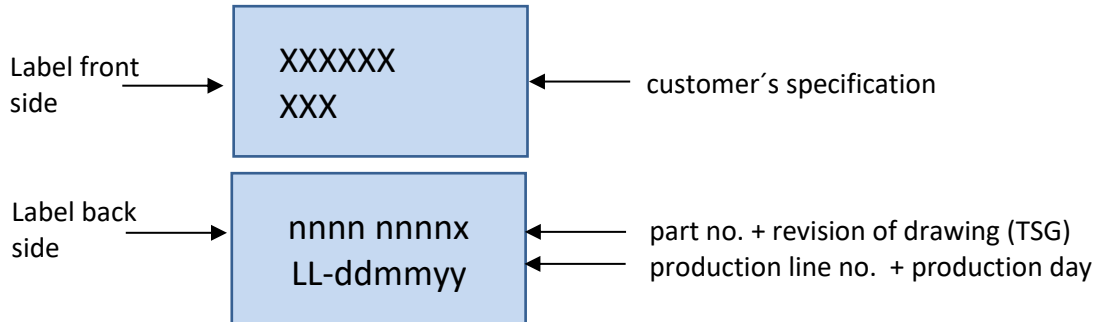
Unless otherwise specified in the technical drawing, each product shall be marked with the TSG material number [n], followed by the revision number [x] and details of the place/line of manufacture [L], the date of manufacture [ddmmyy]. The marking may be applied on a label. Detailed requirements can be found in the "Specification" table in the technical drawing. Additional information, such as customer specifications for marking or labeling, is also shown in this table.

The information can be placed side by side or below each other. If a customer part number [customer part no.] is specified in the specification, it must be included on the label.

1.2.a Testo standard according TLB

Eight-digit item number (include customer part no.):	
Side by side	Among each other
customer part no. - nnnn nnnnx LL-ddmmyy	customer part no. nnnn nnnnx LL-ddmmyy
Eight-digit item number (without customer part no.):	
Side by side	Among each other
nnnn nnnnx LL-ddmmyy	nnnn nnnnx LL-ddmmyy
Ten-digit item number (nnnn nnnn nn) (include customer part no.):	
Side by side	Among each other
customer part no. - nnnn nnnn nnx LL-ddmmyy	customer part no. nnnn nnnn nnx LL-ddmmyy
Ten-digit item number (nnnn nnnn nn) (without customer part no.):	
Side by side	Among each other
nnnn nnnn nnx LL-ddmmyy	nnnn nnnn nnx LL-ddmmyy
Ten-digit item number (87nnnn nnnn):	
Side by side	Among each other
87nnnn nnnnx LL-ddmmyy	87nnnn nnnnx LL-ddmmyy

1.2.b Customer specified label



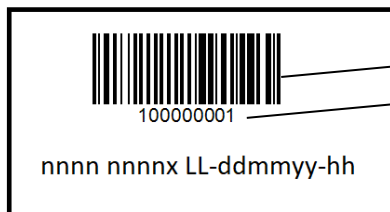
1.3 Series Material with serial number (nnnn nnnn)

Unless otherwise specified in the technical drawing, each product shall be marked with the TSG material number [n], followed by the revision number [x] and details of the place/line of manufacture [L], the date of manufacture [ddmmyy] and, if possible, the hour of manufacture [h] (24h). The marking may be applied on a label. Detailed requirements can be found in the "Specification" table in the technical drawing. If a Customer Part No. [Customer Part No.] is given in the specification, this must be included in the marking.

In addition to the standard marking, the label shows a sequential serial number as text and as a barcode.

Layout of the label

(without customer part no.)



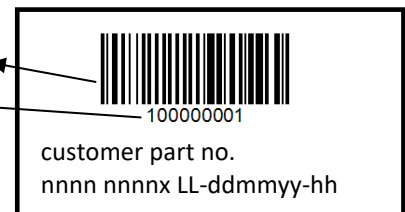
Label content:

Serial number as barcode type COD-128

Serial number as text

Layout of the label

(with customer part no.)

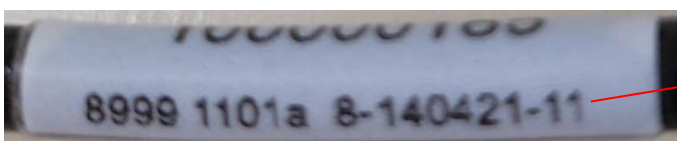


Example:



Serial number as barcode type COD-128

Serial number as text



nnnn nnnnx LL-ddmmyy-hh

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1.4 Standard Portfolio Material (80nnnn nnnn)

Unless otherwise specified in the technical drawing, the product marking of the Standard Portfolio Material shall be as defined below.

Each label shall bear the CE marking. The following information shall be included on the product label:

Temperature probe:

- Testo logo
- CE mark
- Link (www.testo-sensor.de)
- Article number + (KMAT code)
- Measuring range
- Measuring element + connection type
- Production date

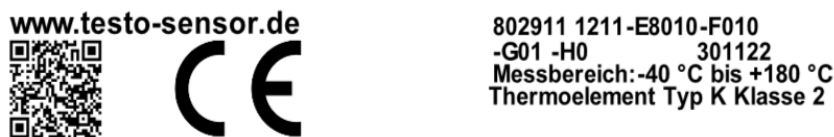
Example:



Thermocouples:

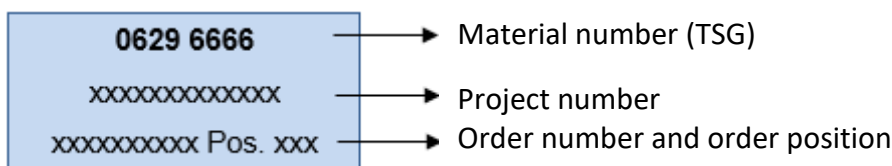
- Testo logo
- CE mark
- Link (www.testo-sensor.de)
- Article number + (KMAT code)
- Measuring range
- Thermocouple + Class
- Production date


Example:



1.5 Samples (0629 6666)

For materials with a material number (0629 6666), unless otherwise specified in the technical drawing or technical documentation, the TSG project number, order number and order position must be shown on the label.



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2 Labeling of outer packaging (carton)

Fast and trouble-free registration of incoming goods requires reliable and unambiguous identification of the goods. Incorrect, ambiguous, or missing labeling leads to considerable disruption and costs within the material flow. TSG reserves the right to charge the causer for the costs incurred.

General requirements for the labeling

Labeling of the outer packaging (carton) must be carried out as follows:

Minimum label content:

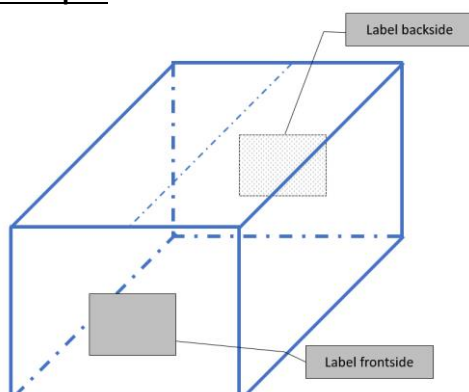
1. Item description in plain writing
2. Customer item number (if available) in plain writing and as barcode
3. Item number Testo in plain writing and as barcode
The barcode type GS1-128 (EAN-128) shall be used.
The barcode must always begin with “93” and end with “30” and be written without spaces for internal processing:
 - Series Material (93nnnnnnnn30 / 93nnnnnnnnnn30 / 9387nnnnnnnn30)
 - Standard Portfolio Material (9380nnnnnnnn30)
 - Sample (930629666630)
4. Drawing index plain writing
5. Production date in plain writing and as barcode
6. Quantity (4 digits) in plain writing and as barcode

Positioning of the label (barcode label) on the carton

To ensure clear identification of the carton, the label must be affixed to both front sides (short sides) of the carton in accordance with the regulation:

- 2.1 for Series Material
- 2.2 for Standard Portfolio Material
- 2.3 for Samples

Example:

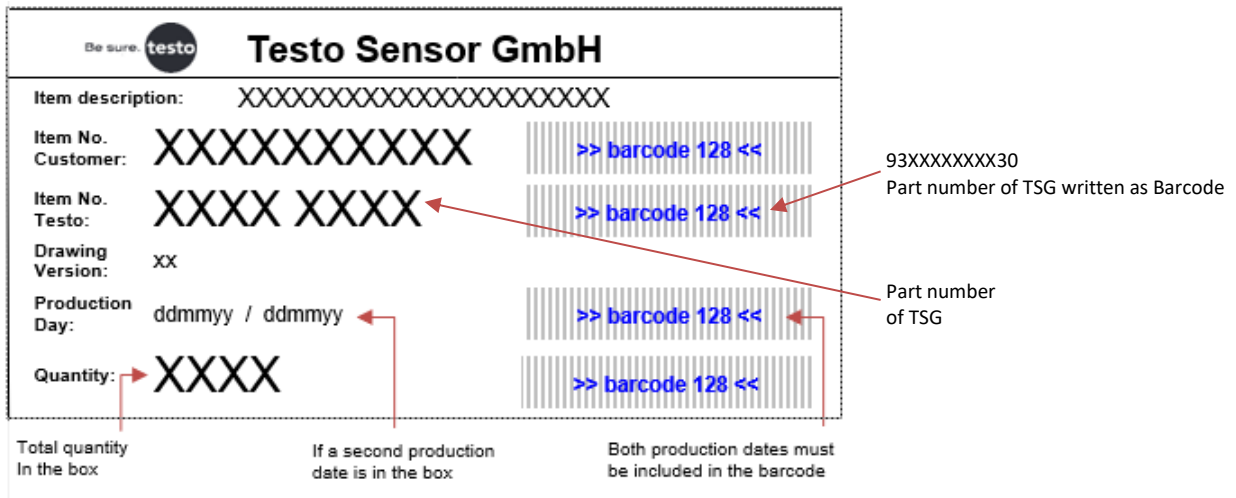


2.1 Label for Series Material (nnnn nnnn / nnnn nnnn nn / 87nnnn nnnn)

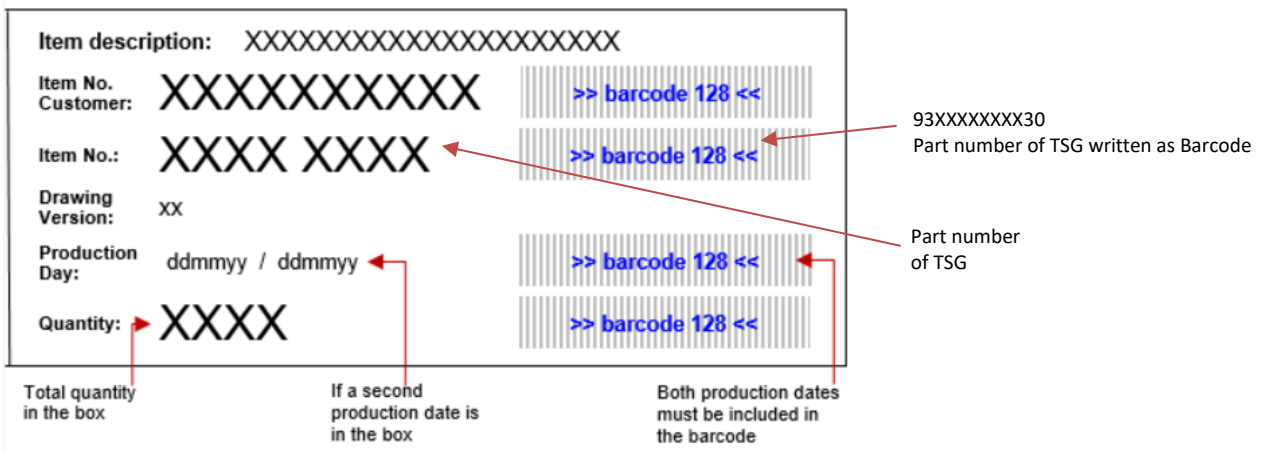
The marking of the outer packaging for Series Material must be carried out as specified in the relevant technical drawing. Field 25 "labeling packing box/ carton" indicates whether a label with or without TSG marking is to be attached to the outer packaging.

If the field says "testo standard according TLB", then a label with TSG marking (2.1.1) must be used. If the field says "neutral standard according TLB", a label without TSG marking (2.1.2) is to be used.

2.1.1 Testo standard according TLB (Design for a label with TSG marking)




2.1.2 Neutral standard according TLB (Design for a label without TSG marking)



2.2 Label for Standard Portfolio Material (80nnnn nnnn)

Unless otherwise specified in the technical drawing or in the technical documentation, the standard label for Series Material according to 2.1.1 shall also be used for Standard Portfolio Material.

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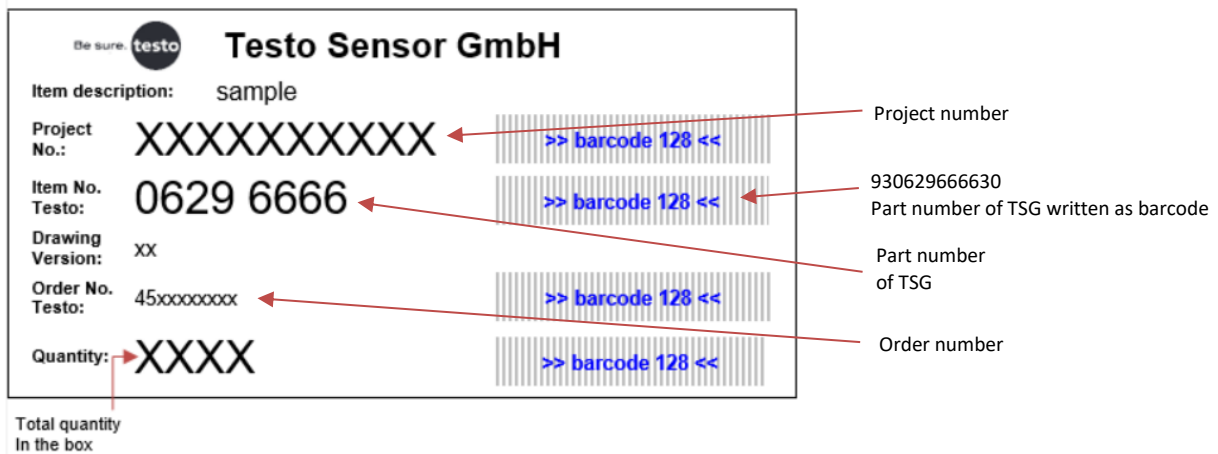
2.3 Label for samples (0629 6666)

In order to be able to quickly identify sample deliveries in the incoming goods department, a label must also be attached to the outer carton. The outer packaging for samples must be marked as specified in the relevant technical drawing or technical documentation. Field 25 "labeling packing box/ carton" indicates whether a label with or without TSG marking is to be attached to the outer packaging.

If the field says "testo standard according TLB", then a label with TSG marking (2.3.1) is to be used. If the field says "neutral standard according TLB", a label without TSG marking (2.3.2) must be used.

Please note that instead of the customer part number, the project number (written and as barcode) and instead of the production date, the TSG order number must be indicated on the label.

2.3.1 Testo standard according TLB (Design for a label with TSG marking)



Item description: sample

Project No.: XXXXXXXXXXXX <> barcode 128 <<

Item No. Testo: 0629 6666 <> barcode 128 <<

Drawing Version: XX

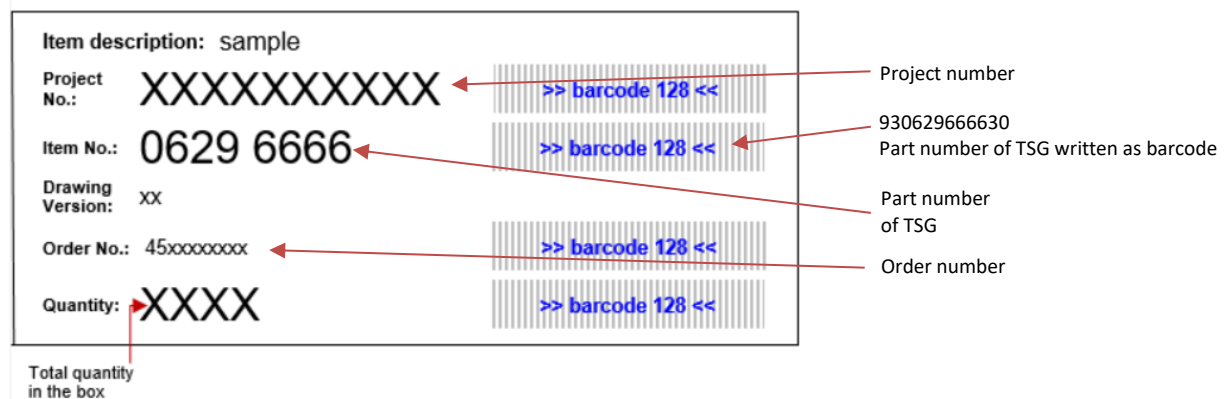
Order No. Testo: 45xxxxxxxx <> barcode 128 <<

Quantity: XXXX <> barcode 128 <<

Total quantity in the box

- Project number
- 930629666630 Part number of TSG written as barcode
- Part number of TSG
- Order number

2.3.2 Neutral standard according TLB (Design for a label without TSG marking)



Item description: sample

Project No.: XXXXXXXXXXXX <> barcode 128 <<

Item No.: 0629 6666 <> barcode 128 <<


Drawing Version: XX

Order No.: 45xxxxxxxx <> barcode 128 <<

Quantity: XXXX <> barcode 128 <<

Total quantity in the box

- Project number
- 930629666630 Part number of TSG written as barcode
- Part number of TSG
- Order number

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3 Packaging

TSG expects its suppliers to plan their packaging according to economic and environmental aspects. The supplier must comply with the waste management objectives of the environmental legislation and the corresponding environmental priorities, i.e:

- **Packaging waste avoidance:** Limit packaging waste to what is immediately necessary.
- **Packaging minimization:** Reusable and disposable packaging is to be defined according to ecological and economic aspects and only the necessary packaging is to be used.
- **Packaging recycling:** Reusable and single-use packaging must allow for environmentally compatible recycling. The use of filling and insulating materials should be minimized. In order to fulfil the requirements of the Packaging Ordinance and avoid unnecessary environmental pollution, environmentally friendly materials or raw materials that can be reused in a circular economy must be used wherever possible. In the case of PE bags, for example, only bags made from 100% recycled plastic should be used or paper tape should be used to close the carton.

Packaging is always provided by the supplier and must meet the following criteria in addition to the packaging requirements above:


- Stackability (in the case of pallet packaging), min. 2-layers
- Marking of max. load or max. stacking factor
- Environmentally friendly disposal

Disposable pallets must be suitable for internal transport, storage and use without restricting the flow of materials. When loading units are formed, the individual components must be secured against slipping. Packaging or other material must not protrude beyond the loading unit. If disposable packaging is used, Directive 94/62/EC on packaging and packaging waste, which has been implemented at national level in the respective countries of the European Community, must be observed. This Directive requires manufacturers and distributors to take back transport packaging after use and to reuse or recycle it.

3.1 Product packaging

Product packaging encloses the product itself. In order to avoid damage to the products, TSG has defined different types of packaging based on qualitative and ecological aspects. Information on the type of product packaging to be used can be found in the relevant technical drawing in the "Specification" table in the field 21 "packaging type". The fixing material to be used is indicated in the field 22 "fixing material".

SPECIFICATION SPEZIFIKATION		8050 1101	revision	q		
		project no. Projektnr.	121018		TR	
		part no. customer Art.Nr. Kunde	41863-02			
1	sensor Sensor	Pt1000 DIN EN 60751 F Q,3 (class B)				
2	material housing Werkstoff Gehäuse	1.4404 / 316L				
3	connection type probe housing/cable Verbindungsart Hülse (Gehäuse) / Leitung	pressed gepresst				
4	pullout force at ++23°C probe housing / cable Auszugskraft bei ++23°C Hülse / Leitung	≥ 30 N				IPQC
5	pullout force at ++23°C probe housing / flat spring Auszugskraft bei ++23°C Hülse / Federstahlblech	≥ 30 N				IPQC
6	cable Leitung	PVC cable (HT), Ø4.35+/-0.1, black 2xAWG24/7, brown/blue, bare copper PVC-Leitung (HT), Ø4.35+/-0.1, schwarz 2xAWG24/7, braun/blau, Kupfer blank				
8	electrical connection Elektrischer Anschluss	enl crimp (6mm splice) Endcrimp (6mm Splice)				
9	pullout force cable / electrical connection Abzugskraft Leitung / Elektr. Anschluss	≥ 30 N				IPQC
10	protection class (DIN EN 60529) Schutzart (DIN EN 60529)	IP 52				
11	operating temperature Einsatztemperatur	-35°C +105°C				
12	insulation resistance at ++23°C Isolationswiderstand bei ++23°C	@ min. 100V DC ≥ 100 Mohm				100
labeling / packaging / testing according to technical delivery specification Beschriftung / Verpackung / Prüfung entspr. technische Lieferbedingungen		TLB 74103				
20	labeling Beschriftung	- customer-specific Kundenspezifisch				
21	packaging type Verpackungsart	3.1 i) rolled ø100mm + two side fixed (without bag) gerollt ø 100 mm + 2x fixiert (ohne Beutel) rolled outer ø 100 + 40 mm				
22	fixing material Befestigungsmaterial	0950 8007 (2x) Elastogam				
25	labeling packing box / carton Etikett für Karton	- customer-specific according attachment list SAP Kundenspezifisch gemäss Anlageliste SAP				
26	heat transfer compound Wärmeleitpaste	0958 0040 dow corning 340				
29	cable resistance offset Offset durch Leitungswiderstand	Note! Cable resistance offset has to be considered, when using 2 or 3 wire technology. Der Offset des durch die Leitung erzeugten zusätzlichen Widerstandes muss bei 2 und 3 Leitertechnik berücksichtigt werden.				
30	value at 25°C Wert bei 25°C	Rmin = 1095,7 Ohm Rnom = 1097,3 Ohm Rmax = 1098,9 Ohm	Note! Self heating coefficient: 0,4 K/mW at 0°C Please ensure in accordance with DIN 60751 that the self-heating caused by the measuring current does not exceed more than 25% of the limit deviation of the tolerance class. The shown resistance values are not including the cable resistances.		100	
31	value at 60°C Wert bei 60°C	Rmin = 1230,1 Ohm Rnom = 1232,4 Ohm Rmax = 1234,7 Ohm				
32	RoHS compliant / RoHS konform					

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Product packaging types:

- a) rolled Ø 100 mm + one side fixed (without the bag)
- b) rolled Ø 100 mm + fixed (without the bag)
- c1) rolled Ø 100 mm + one side fixed + packed in bag (bag is not welded, only folded)
- c2) rolled Ø 100 mm + one side fixed + packed in welded bag (bag is welded, it is not tightly welded)
- c3) rolled Ø 100 mm + one side fixed + packed in paper bag (only folded)
- d1) rolled Ø 100 mm + fixed + packed in bag (bag is not welded, only folded)
- d2) rolled Ø 100 mm + fixed + packed in welded bag (bag is welded, it is not tightly welded)
- d3) rolled Ø 100 mm + fixed + packed in paper bag (only folded)
- e) bundled à xx pieces + 1-time fixed piece (without bag)
- f) bundled à xx pieces + 2-times fixed (without bag)
- g) bulk material
- h1) bulk material à xx pieces packed in PE-bag (bag is not welded, only folded)
- h2) bulk material à xx pieces welded in PE bag (bag is welded, is not tightly welded)
- h3) bulk material à xx pieces packed in paper bag (only folded)
- i) rolled Ø 100 mm + two side fixed (without the bag)
- j1) rolled Ø 100 mm + two side fixed + packed in bag (bag is not welded, only folded)
- j2) rolled Ø 100 mm + two side fixed + packed in welded bag (bag is welded, it is not tightly welded)
- j3) rolled Ø 100 mm + two side fixed + packed in paper bag (only folded)
- k) sorted & aligned à xx pieces all in the same direction + unfixed + packed in bag (bag is not welded, only folded)
- k1) sorted & aligned à xx pieces all in the same direction + unfixed + packed in welded bag (bag is welded, it is not tightly welded)
- k2) sorted & aligned à xx pieces all in the same direction + unfixed + paper packed in bag (only folded)

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	Picture	Elastogarn	Binding wire	Rubber	Cable ties	Driller	PE Bag		Paper Bag
							Closed	Welded	Closed
a)			X max. 17m		X	X			
b)		X	X max. 4m	X	X	X			
c)			X max. 17m		X	X	c1)	c2)	c3)
d)		X	X max. 4m	X	X	X	d1)	d2)	d3)
e)		X max. 3m	X	X	X	X			
f)		X max. 3m	X	X	X	X			
g)									
h)							h1)	h2)	h3)
i)		X min. 2m	X max. 17m		X	X			
j)		X min. 2m	X max. 17m		X	X	j1)	j2)	j3)
k)							k)	k1)	k2)

3.1.1 Labeling (barcode) product packaging

For internal logistics processes, an additional label is required for the individual product groups ("Series Material", "Standard Portfolio Material" and "Samples"). When this label is required can be found in the relevant technical drawing in the specifications in field 24 "label for bag". How this label has to look like, and which information has to be included is described in this chapter.

SPECIFICATION SPEZIFIKATION		801011 1032		revision c	TR
1	sensor <i>Sensor</i>	project no. Projektnr.	KMAT		
2	material housing <i>Werkstoff Gehäuse</i>	part no. customer <i>Art.Nr. Kunde</i>	P11000 DIN EN 60751 F 0,3 (class B)		
3	protection class (DIN EN 60529) <i>Schutzart (DIN EN 60529)</i>		Tolerance validity / Toleranzgültigkeit -50°C up to +400°C		
4	operating temperature of probe [°C] <i>Einsatztemperatur des Fühlers [°C]</i>	min. temperature [°C]	max. temperature [°C]		
		-30	70		
labeling / packaging / testing according to technical delivery specification <i>Beschriftung / Verpackung / Prüfung entspr. technische Lieferbedingungen</i>					
20	labeling <i>Beschriftung</i>	customer- specific <i>Kundenspezifisch</i>			
21	packaging type <i>Verpackungsart</i>	single sealed in bag <i>einzel in Beutel verpackt</i>			
23	bag <i>Beutel</i>	PE-bag from the upper part or lower part <i>Beutel des Ober bzw. Unterteils</i>			
24	label for bag <i>Etikett für Beutel</i>	0140 0239	labeling according testo standard TLB <i>Bedruckung gemäss Testo-Standard TLB</i>		
25	labeling packing box / carton <i>Etikett für Karton</i>	2.	testo standard according TLB <i>Testo-Standard gemäss TLB</i>		
26	potting compounds <i>Verquassmasse</i>	0958 0050 0958 0056	Wepuran VU 4452/6IHE comp.A <i>hardener H27 / Härter H27 for Wepuran VU 4452/6IHE comp. B</i>		

3.1.1.1 Series Material (nnnn nnnn / nnnn nnnn nn / 87nnnn nnnn)

There is no special marking on the product packaging for Series Material. Special marking, if required, is indicated in the specification on the relevant technical drawing.

3.1.1.2 Standard Portfolio Material (80nnnn nnnn)

For deliveries to TSG, each product packaging requires a label with the number of units contained; TSG will discuss this in detail with the suppliers if required. For direct deliveries to end customers, this label is not required on the product packaging. Each product package needs a barcode label with the number of pieces included.


The barcode labeling of the goods must be done in compliance with the following specifications:

- GS1-128 (EAN-128) barcode type must be used
- Minimum size of the barcode label: 6 cm x 3.5 cm (W x H)
- Production date format:

801 = January 2018
Last digit of the year (digit 1)
Month (digits 2 and 3)

Barcode type GS1-128 (EAN-128) - internal:


1	Testo-article number in plain writing	
2	Testo-article-number as Barcode	
	→ Code number „93“ (company-internal)	
	→ Art.-No. in the barcode <u>without</u> blank	
	→ Code number „30“ (ind. of quantity)	
	→ Quantity (6-digits)	
3	GS1-128-Code in plain writing	
4	Indication of quantity	
5	Date of production	



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Guideline for suppliers of Testo Sensor GmbH	
TLB 741 01 Standard EN – Transport, Logistics and Branding specification (TLB)	

3.1.1.3 Samples (0629 6666)

Unless otherwise specified in the technical drawing or in the technical documentation, the general marking on the product packaging is omitted for samples.

3.2 Outer packaging (carton)

Outer packaging is the bundling of individual products for logistical reasons. It is not part of the product but is used for storage and more efficient transport of already packaged products.

3.2.1 Carton sizes and carton design

Unless otherwise defined in the technical drawing or technical documents, TSG does not prescribe any specific carton design and dimensions to its suppliers. The supplier can use his standard cartons.

A reasonable outer packaging unit (carton) must be selected, considering that:

- the number of pieces per carton or a multiple thereof is like to the requested number of pieces.
- the packaging unit (the carton) is filled to the maximum, taking care that the packaging is safe for transport.
- the total weight per carton does usually not exceed 10 kg.

In the case of Series Material, the details must be coordinated with the TSG Purchasing Department.

3.3 Transport and shipping packaging

Shipping packaging or transport packaging is packaging that facilitates the transport of goods, bundles outer packaging, protects goods from damage during transport or is used for reasons of transport safety.

The selection of the correct transport and shipping packaging is the responsibility of the supplier. Based on this TLB, the supplier must select the appropriate packaging method for the products and ensure that the specified packaging requirements are met.

When selecting the transport and shipping packaging, it is essential that the following criteria are met:

- Protection against damage (no impairment of quality)
- Easy handling
- Labeling of the goods according to the requirements for goods labeling
- Stackability
- Transport security
- Suitability for transport and for loading activities by industrial trucks
- Clean condition of pallets, containers and packaging
- Objects (e.g. slips, strings, covers) that exceed the outer contours of the outer packaging are to be removed before shipment
- Efficient packing of pallets (avoid unnecessary free space between individual boxes)