


## Ink ribbon - THERMOMARK-RIBBON 110-WMS - 5145397

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Ribbon sheet, length: 300 m, width: 110 mm, printing color: Black (specially for shrinking sleeves)

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 108034
GTIN	4046356108034
Weight per Piece (excluding packing)	355.200 g
Custom tariff number	96121010
Country of origin	United States

### Technical data

#### Dimensions

Length (b)	300.00 m
Width (a)	110.00 mm

#### Ambient conditions

Recommended storage conditions	23°C/50% relative humidity. Storage in a dry and dark place in the original packaging is recommended.
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#### General

Color	black
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### Classifications

#### eCl@ss

eCl@ss 4.0	24190105
eCl@ss 4.1	24190105
eCl@ss 5.0	19029102



## Ink ribbon - THERMOMARK-RIBBON 110-WMS - 5145397

### Classifications

#### eCl@ss

eCl@ss 5.1	19029102
eCl@ss 6.0	27141137
eCl@ss 7.0	27141137
eCl@ss 8.0	19149290
eCl@ss 9.0	19149290

#### ETIM

ETIM 2.0	EC000761
ETIM 3.0	EC000761
ETIM 4.0	EC001675
ETIM 5.0	EC001675

#### UNSPSC

UNSPSC 6.01	43172501
UNSPSC 7.0901	43212107
UNSPSC 11	43172501
UNSPSC 12.01	43212107
UNSPSC 13.2	43211612



# Printing systems - MARKING system

The right printer for every application. We can provide a wide range of printing systems for your terminal, conductor, cable, and device marking requirements. The BLUEMARK CLED high-speed printer with innovative UV technology prints materials in UniCard format quickly and easily.

The printers in the THERMOMARK series are renowned for their proven maintenance-free printing method and maximum user-friendliness. They can be used to print markers in a variety of materials and print formats, as well as labels and shrink sleeves, in outstanding quality.

## Product range overview

<b>Printing systems</b>	<b>30</b>
BLUEMARK CLED	32
THERMOMARK CARD PLUS	34
THERMOMARK CARD	35
THERMOMARK ROLL	38
THERMOMARK ROLL X1	39
MARKING BOX	40
THERMOMARK CARD SET and ROLL SET	41
THERMOMARK X1.2	42
THERMOMARK W2	43
CMS-P1-PLOTTER	44
CMS-P1-PLOTTER engraving unit	45
<b>Overview of marking material - printers</b>	<b>50</b>
Which printer prints which marking	



Phoenix Contact is a competent partner for control cabinet and system engineering. In this context, we aim to supplement our products with services, hardware, and software to make the planning and production of systems as efficient as possible.

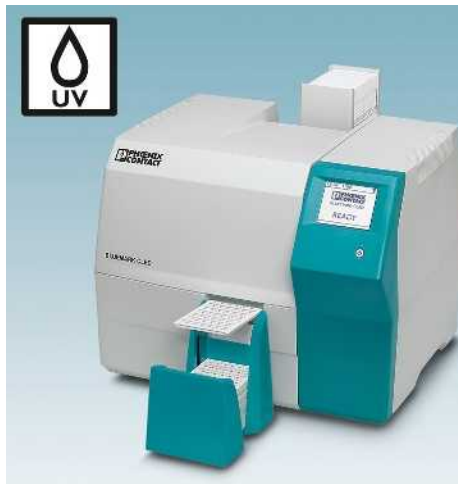
MARKING system from Phoenix Contact represents an integrated labeling system from planning right through to the finished printed label. In addition to the wide range of marking materials, the marking range also includes the CLIP PROJECT software as well as various printers.

The data required for labeling is sent to the printers by the CLIP PROJECT planning software, which is supplied as standard. This controls the printers and facilitates the creation of marking data by allowing data to be imported directly from circuit diagrams.

Phoenix Contact provides a variety of printing systems:

- BLUEMARK CLED, high-speed printer with UV technology for labeling UniCard formats
- THERMOMARK CARD, thermal transfer printer for labeling UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for labeling material off the roll and continuous media
- THERMOMARK ROLL X1, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided labeling and perforation of continuous shrink sleeves
- CMS-P1-PLOTTER and P1 ENGRAVING UNIT to extend plotters for engraving

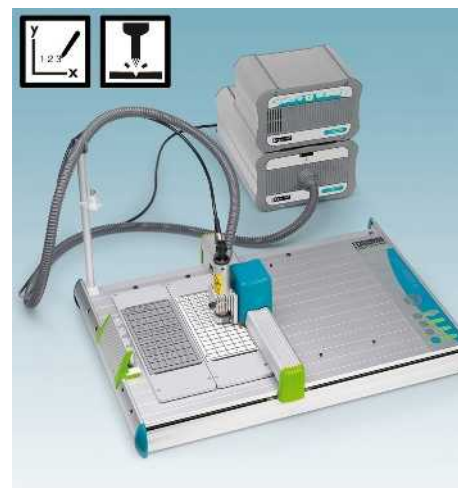
A comprehensive range of materials for marking terminal blocks, conductors, cables, and devices is available for each of the printing systems provided. As a result, each printing system represents a self-contained solution capable of performing all marking tasks in and around the control cabinet. To ensure that you benefit from consistently high levels of marking quality, all the materials offered are tailored to the devices concerned and undergo extensive testing.



The BLUEMARK CLED uses the latest UV technology for labeling. This makes the markers instantly wipe-resistant and ready for immediate use. The fast printing technology enables 10,000 labels to be processed per hour. Thanks to the LED technology, the printer does not require a warm-up time, is environmentally friendly, and is also very quiet.

With the new THERMOMARK CARD PLUS thermal transfer printer, you can use a segmented ink ribbon to create four-color marking labels. You can create warning instructions, prohibition signs, mandatory signs, hazardous substances labels according to the Ordinance on Hazardous Substances, and combi labels easily and with excellent quality. The low weight and compact design of this new printer mean that it can also be used as a portable solution.

The new THERMOMARK CARD thermal transfer printer can be used to print marking materials supplied in card format. It offers you a really easy way to produce terminal, conductor, cable, and device markings of incredibly high quality. The low weight and compact design of the new printer mean that it can also be used as a portable solution wherever it is needed.



The THERMOMARK ROLL thermal transfer printer has been designed for printing material off the roll and continuous media. You can easily create high-quality printed labels, markers, and shrink sleeves. The compact printer is also suitable for mobile use. The THERMOMARK ROLL X1 is particularly suitable for labeling large quantities.

The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous WMS shrink sleeves. Double-sided labeling ensures optimum legibility on conductors and cables. The special construction of the guide elements ensures easy handling when inserting the sleeve.

Apart from label strips and UniCard materials, the CMS-P1-PLOTTER can also be used to label sheet materials. Its integrated pen station facilitates handling and helps prevent the pens from drying out. The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device.

# Marking and labeling - MARKING system

## Printing systems

### BLUEMARK CLED



UV LED technology

#### MARKING system

The new BLUEMARK CLED makes labeling standardized UniCard material for terminal blocks, conductors, and device marking as easy as printing on paper. The printer receives labeling data directly from your CAE system via the CLIP PROJECT central planning and marking software.

#### Simple operation

- Order-specific printing, thanks to large exchangeable magazine for up to 40 marker sheets
- Printing can be rotated by 180° as required, thanks to automatic material detection
- The front feed enables individual sheets to be labeled regardless of how the magazine is assembled



#### Easy operation

- Thanks to large color touch screen
- Direct entry of data and commands
- Clear symbols and plain text messages
- Ready to print as soon as device is switched on
- Language selection via touchscreen menu

#### CLED – compact UV LED printing technology

- Printing fluid is exposed to UV light which is the basis of our quick-dry printing concept. This light is generated with high intensity using 24 LEDs on a surface of 1 cm<sup>2</sup>.
- Excellent printing quality
  - No drying time
  - High wipe and abrasion resistance
  - Excellent resistance to chemicals
  - Environmentally friendly, as solvent-free system

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print method	
Volume	
Pressure capacity	
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	
Power consumption	[W]

Description	Color
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**Printer with solvent-free LED UV technology**, including CLIP PROJECT advanced software, collection container for 20 sheets, CD with multilingual user manual, English/German user manual, driver and firmware, European and US power cable, USB cable

**Set**, consisting of: 1 x BLUEMARK CLED, Order No. 5147999, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL

With German operating system and German keyboard

With English operating system and English keyboard

**Accommodating box**, in conjunction with the BLUEMARK CLED-MAG 40, for accommodating 90 UC or UCT sheets

**Fluid cartridge**, replacement, 20 ml printing fluid, black

**Exchangeable magazine**,  
For accommodating 20 UC or UCT sheets  
For accommodating 40 UC or UCT sheets

**Compartment**  
For accommodating 20 UC or UCT sheets

**Transport case**, with aluminum edges, for printer and accessories

Magazines for labeling aluminum markers

#### Notes:

An application video can be found in the download area for the relevant product on our website at [www.phoenixcontact.net/products](http://www.phoenixcontact.net/products).



Printers



Printing set for mats



Accommodating box

Technical data		
Width	Length	Height
480	500	330
5 ... 35		
UV LED technology		
20 ml		
Approx. 10000 markers/h (UC-TMF 4 with 2 characters/marker)		
10/100 Mbps Ethernet / USB 2.0		
100 ... 240 / 50 Hz ... 60 Hz		
16		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
74		

Technical data		
Width	Length	Height
480	500	330
5 ... 35		
UV LED technology		
20 ml		
Approx. 10000 markers/h (UC-TMF 4 with 2 characters/marker)		
10/100 Mbps Ethernet		
100 ... 240 / 50 Hz ... 60 Hz		
16		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
74		

Technical data		
Width	Length	Height
400	470	160
-		
-		
-		
-		
-		
-		
-		

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED	5147999	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED SET	5147400	1
BLUEMARK CLED SET EN	5147401	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-BASE	5146669	1

Accessories		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-FLUID-CARTR.	5146662	1
BLUEMARK CLED-MAG 20	5146655	1
BLUEMARK CLED-MAG 40	5146668	1
BLUEMARK CLED-STACKER 20	5146656	1
BLUEMARK CLED CASE	5146725	1

Accessories		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-FLUID-CARTR.	5146662	1
BLUEMARK CLED-MAG 20	5146655	1
BLUEMARK CLED-MAG 40	5146668	1
BLUEMARK CLED-STACKER 20	5146656	1
BLUEMARK CLED CASE	5146725	1

Accessories		
Type	Order No.	Pcs. / Pkt.

See page 161

See page 161



# Marking and labeling - MARKING system

## Printing systems

### THERMOMARK CARD PLUS, for sheet materials and cards, four-color printing



Thermal transfer for sheets and cards



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The THERMOMARK CARD PLUS was specially developed for printing with segmented multi-ink ribbons.

- Prints markers in card format for terminal, conductor, cable, device, system, and safety marking applications
- Prints several colors without replacing the ink ribbon
- For all UniCard (UCT) and UniSheet (US) materials
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast printing: printing time for one single-color UniCard: just 8 seconds
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

**Notes:**  
An application video can be found in the download area for the relevant product on our website at [www.phoenixcontact.net/products](http://www.phoenixcontact.net/products).

Dimensions	
	[mm]
General data	
Print resolution	[dpi]
Max. print width	[mm]
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
253	320	189

Description	Color
<b>Thermal transfer printer for cards</b> , incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)	gray

### Ordering data

Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD PLUS	5146481	1

Transport case	
Ink ribbon, length: 300 m, width: 110 mm	black
Ink ribbon, length: 300 m, width: 110 mm	white
<b>Segmented ink ribbon</b> , length: 60 m, width: 110 mm two segments in colors	black/red
three segments in colors	black/red/yellow
four segments in colors	black/red/blue/yellow

### Accessories

Type	Order No.	Pcs. / Pkt.
TL CASE	0800613	1
THERMOMARK-RIBBON 110-TC	0801371	1
TM-RIBBON 110-TC/TR WH	1014402	1
TM-RIBBON 110-TC BK/RD	1014403	1
TM-RIBBON 110-TC BK/RD/YE	1014404	1
TM-RIBBON 110-TC BK/RD/BU/YE	1014405	1



**THERMOMARK CARD, thermal transfer printer for sheet materials and cards**



Thermal transfer for sheets and cards



- The THERMOMARK CARD can print markers supplied as cards in the context of terminal, conductor, cable, and device marking applications
- For all UniCard (UCT) and UniSheet (US) materials
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling. Printing time for one UniCard: just 8 seconds
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

**Notes:**  
 For corresponding magazines, see page 36.  
 An application video can be found in the download area for the relevant product on our website at [www.phoenixcontact.net/products](http://www.phoenixcontact.net/products).

<b>Dimensions</b>	[mm]
<b>General data</b>	
Print resolution	[dpi]
Max. print width	[mm]
Power supply	[V]
Weight	[kg]
Operating systems	

CCC

Technical data		
Width	Length	Height
253	320	189
<b>General data</b>		
Print resolution	[dpi]	300 dpi
Max. print width	[mm]	104
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz
Weight	[kg]	6
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)

<b>Description</b>	<b>Color</b>
<p><b>Thermal transfer printer for cards</b>, incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)</p>	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD	5146464	1

<b>Transport case</b>	
<b>Ink ribbon</b> , length: 300 m, width: 110 mm	black
<b>Ink ribbon</b> , length: 300 m, width: 110 mm	white

Accessories		
Type	Order No.	Pcs. / Pkt.
TL CASE	0800613	1
THERMOMARK-RIBBON 110-TC	0801371	1
TM-RIBBON 110-TC/TR WH	1014402	1



# Marking and labeling - MARKING system

## Printing systems

### Magazines for THERMOMARK CARD and THERMOMARK CARD PLUS



Thermal transfer for sheets and cards



- Robust magazines for UniCard labeling material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Description
<b>Magazine, for THERMOMARK CARD ...</b> for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)
<b>Magazine, for THERMOMARK CARD ..., for accommodating: UCT-TMF ...</b>
<b>Magazine, for THERMOMARK CARD ..., for accommodating: UCT-WMS ...</b>
<b>Plastic magazine, for THERMOMARK CARD ..., for accommodating: UCT1-TMF...</b>
<b>Plastic magazine, for THERMOMARK CARD ..., for accommodating: UCT2-TM ...</b>
<b>Magazine, for THERMOMARK CARD ..., for accommodating: UCT3-TM ...</b>
<b>Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)</b>
<b>Magazine, for THERMOMARK CARD ...</b> for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10) for accommodating UCT-EM (12X3.3), UCT-EM (12X6) for accommodating UCT-EM (30X5) for accommodating UCT-EM (17X10) and (20X8)
<b>Magazine, for THERMOMARK CARD ...</b> for accommodating UCT-EM (10X8), UCT-EM (12X7) for accommodating UCT-EM (10X5) for accommodating UCT-EM (21X8) and UCT EM (17X8)
<b>Magazine, for THERMOMARK CARD ...</b> for accommodating UCT-EM (20 x 9) for accommodating UCT-EM (17 x 9) for accommodating UCT-EM (18 x 8)
<b>Magazine, for THERMOMARK CARD ...</b> for accommodating UCT-EM (17,5X7,5) for accommodating UCT-EM (10X7) for accommodating UCT-EM (17,5X9)
<b>Magazine, for THERMOMARK CARD ...</b> for accommodating UCT6M-TM ... for accommodating UCT6R-TM ...

Ordering data			
Type	Order No.	Pcs. / Pkt.	
THERMOMARK CARD-UCT-MAG1	5146480	1	
THERMOMARK CARD-UCT-MAG2	5146563	1	
THERMOMARK CARD-UCT-MAG3	5146613	1	
THERMOMARK CARD-UCT-MAG4	5146614	1	
THERMOMARK CARD-UCT-MAG5	5146615	1	
THERMOMARK CARD-UCT-MAG6	5146616	1	
THERMOMARK CARD-UCT-MAG7	0801734	1	
THERMOMARK CARD-UCT-MAG8	0801735	1	
THERMOMARK CARD-UCT-MAG9	0801736	1	
THERMOMARK CARD-UCT-MAG10	0801737	1	
THERMOMARK CARD-UCT-MAG11	0801738	1	
THERMOMARK CARD-UCT-MAG12	0830399	1	
THERMOMARK CARD-UCT-MAG13	0830400	1	
THERMOMARK CARD-UCT-MAG14	0830401	1	
THERMOMARK CARD-UCT-MAG15	0830402	1	
THERMOMARK CARD-UCT-MAG16	0830403	1	
THERMOMARK CARD-UCT-MAG17	0830404	1	
THERMOMARK CARD-UCT-MAG18	0830405	1	
THERMOMARK CARD-UCT-MAG20	0830751	1	
THERMOMARK CARD-UCT-MAG22	0830771	1	
THERMOMARK CARD-UCT-MAG23	0830808	1	
THERMOMARK CARD-UCT-MAG24	0830809	1	

**Magazine for THERMOMARK CARD and THERMOMARK CARD PLUS**



Thermal transfer for sheets and cards



- Robust magazine for UniSheet labeling material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Description
<b>Magazine</b> , for THERMOMARK CARD..., for accommodating all US-... materials

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

# Marking and labeling - MARKING system

## Printing systems

### THERMOMARK ROLL, thermal transfer printer for material off the roll



Thermal transfer for rolls



- The THERMOMARK ROLL can print markers supplied on rolls in the context of terminal, conductor, cable, and device marking applications
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

**Notes:**

An application video can be found in the download area for the relevant product on our website at [www.phoenixcontact.net/products](http://www.phoenixcontact.net/products).



**Technical data**

Dimensions	[mm]
<b>General data</b>	
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Power supply	[V]
Weight	[kg]
Operating systems	

Width	Length	Height
253	320	189

300 dpi
104
1000
100 ... 240 / 50 Hz ... 60 Hz
4
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)

Description	Color
<b>Thermal transfer printer for material off the roll</b> , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray

**Ordering data**

Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL	5146477	1

**Cutter**, can be retrofitted, for precise cutting of continuous media into required lengths

**Cutter**, can be retrofitted, for perforating continuous media

**Transport case**

**External media hub**, for roll diameters of 150 mm to 305 mm

**External media hub**, for roll diameters of up to 500 mm

**Ink ribbon**, length: 300 m, width: 110 mm

- black
- blue
- green
- red

**Ink ribbon**, specifically for high-temperature labels, EML-HT...

- black

**Ink ribbon**, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm

- black
- white

**Ink ribbon**, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm

- black
- white

**Accessories**

Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL-CUTTER	5146422	1
THERMOMARK ROLL-CUTTER/P	5146435	1
TL CASE	0800613	1
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110 BU	0829544	1
THERMOMARK-RIBBON 110 GN	0829542	1
THERMOMARK-RIBBON 110 RD	0829543	1
THERMOMARK-RIBBON 110-EML-HT	0800342	1
THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1

**THERMOMARK ROLL X1, thermal transfer printer for material off the roll**



Thermal transfer for rolls



- The THERMOMARK ROLL X1 printer is suitable for labeling large quantities and offers the following features:
- Also accommodates large rolls; inside the printer housing, the label rolls are protected against environmental influences such as dust and dirt
  - For all labels and shrink sleeves
  - Maintenance-free operation with tried-and-tested thermal transfer printing technology
  - High-quality, fast labeling
  - Easy operating concept based on straightforward touchscreen entry
  - USB and Ethernet connections
  - Easy to control with the CLIP PROJECT software
  - Printing and dispensing labels on request or automatically after removing the label with the THERMOMARK ROLL X1 -DISPENSER

**Cutting to length or perforating is easy**

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)



Dimensions		[mm]
<b>General data</b>		
Temperature range	[°C]	5 ... 40
Print resolution	[dpi]	300 dpi
Max. print width	[mm]	104
Max. printing length	[mm]	1000
Interfaces		10/100 Mbps Ethernet / USB 2.0
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz
Weight	[kg]	5
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)

Technical data		
Width	Length	Height
264	412	245

Description	Color
<b>Thermal transfer printer for material off the roll</b> , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL X1	5146723	1

<b>Cutter</b> , can be retrofitted, for precise cutting of continuous media into required lengths		
<b>Perforation device</b> , can be retrofitted, for perforating and cutting continuous media		

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL X1 CUTTER	5146765	1
THERMOMARK ROLL X1 CUTTER/P	5146766	1
THERMOMARK ROLL X1 -DISPENSER	1014401	1

<b>Label dispenser</b> , dispensing device for labels with a height of 10 mm or more		
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<b>Ink ribbon</b> , length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110	5145384	1
	blue	THERMOMARK-RIBBON 110 BU	0829544	1
	green	THERMOMARK-RIBBON 110 GN	0829542	1
	red	THERMOMARK-RIBBON 110 RD	0829543	1

<b>Ink ribbon</b> , specifically for high-temperature labels, EML-HT...	black	THERMOMARK-RIBBON 110-EML-HT	0800342	1
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<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMSU	0801358	1
	white	THERMOMARK-RIBBON 110-WMSU WH	0801359	1

<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	THERMOMARK-RIBBON 64-WMSU	0801360	1
	white	THERMOMARK-RIBBON 64-WMSU WH	0801361	1

<b>Ink ribbon</b> , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMTB HF	5148007	1
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<b>Transport case</b>	silver	THERMOMARK ROLL X1-CASE	5146724	1
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# Marking and labeling - MARKING system

## Printing systems

### THERMOMARK printer sets



Thermal transfer for sheets and cards



Thermal transfer for rolls



Printing set, complete

MARKING BOX is the complete labeling system for all terminal, conductor, cable, and device marking applications. It is available for different country-specific keyboard and operating systems.

- Includes the THERMOMARK CARD printer for all materials in the UniCard (UCT) and UniSheet (US) formats
- Includes the THERMOMARK ROLL printer for all labels and shrink sleeves supplied in rolls
- Includes a powerful notebook with pre-installed CLIP PROJECT configuration and marking software, as well as the printer drivers required to enable quick start-up without any need for installation and setup work. Plug and print. Simply connect the devices via USB and you're ready to print
- The compact and robust THERMOMARK printers are optimally suited to mobile use on site.

**Notes:**  
An application video can be found in the download area for the relevant product on our website at [www.phoenixcontact.net/products](http://www.phoenixcontact.net/products).

Description
<b>Set</b> , consisting of: 1 x THERMOMARK CARD, Order No. 5146464, 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
<b>Printing set</b> , consisting of: 1 x THERMOMARK CARD, Order No. 5146464, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
<b>Printing set</b> , consisting of: 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
<b>Versions</b>
German operating system and Swiss keyboard
English operating system and Belgian keyboard
French operating system and keyboard
Spanish operating system and keyboard
Italian operating system and keyboard
Polish operating system and US international keyboard
Hungarian operating system and keyboard
Portuguese operating system and keyboard
Russian operating system and keyboard
Danish operating system and keyboard
Swedish operating system and keyboard

Ordering data		
Type	Order No.	Pcs. / Pkt.
MARKING BOX	5147100	1
MARKING BOX EN	5147101	1
MARKING BOX DE CH	0801749	1
MARKING BOX EN BE	0801742	1
MARKING BOX FR FR	0801590	1
MARKING BOX ES ES	0801747	1
MARKING BOX IT IT	0801745	1
MARKING BOX PL US	0801744	1
MARKING BOX HU HU	0801750	1
MARKING BOX PT PT	0801748	1
MARKING BOX RU RU	0801739	1
MARKING BOX DK DK	0801741	1
MARKING BOX SE SE	0801740	1

Printer accessories

**Accessories**  
[www.phoenixcontact.net/products](http://www.phoenixcontact.net/products)



Printing set for cards



Printing set for material provided on rolls



Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD SET	5147200	1
THERMOMARK CARD SET EN	5147201	1
THERMOMARK CARD SET DE CH	5147220	1
THERMOMARK CARD SET EN BE	5147214	1
THERMOMARK CARD SET FR FR	0801591	1
THERMOMARK CARD SET ES ES	5147218	1
THERMOMARK CARD SET IT IT	5147217	1
THERMOMARK CARD SET PL US	5147215	1
THERMOMARK CARD SET HU HU	5147221	1
THERMOMARK CARD SET PT PT	5147219	1
THERMOMARK CARD SET RU RU	5147211	1
THERMOMARK CARD SET DK DK	5147213	1
THERMOMARK CARD SET SE SE	5147212	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL SET	5147300	1
THERMOMARK ROLL SET EN	5147301	1
THERMOMARK ROLL SET DE CH	5147230	1
THERMOMARK ROLL SET EN BE	5147225	1
THERMOMARK ROLL SET FR FR	0801592	1
THERMOMARK ROLL SET ES ES	5147228	1
THERMOMARK ROLL SET IT IT	5147227	1
THERMOMARK ROLL SET PL US	5147226	1
THERMOMARK ROLL SET HU HU	5147231	1
THERMOMARK ROLL SET PT PT	5147229	1
THERMOMARK ROLL SET RU RU	5147222	1
THERMOMARK ROLL SET DK DK	5147224	1
THERMOMARK ROLL SET SE SE	5147223	1

Accessories

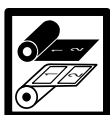
Accessories



# Marking and labeling - MARKING system

## Printing systems

### THERMOMARK X1.2, thermal transfer printer for material off the roll



Thermal transfer for rolls



An important addition to the range is the THERMOMARK X1.2, a top-of-the-line thermal transfer printer with the following key features:

- High print speed
- Print resolution of 300 dpi
- This printer is suitable for labeling large quantities and is capable of processing all types of material supplied on rolls
- The easy-to-use centering function for the printing material makes it possible to label continuous media such as shrink sleeves
- High-quality resin-based ink ribbons ensure a form of labeling that is resistant to mechanical and chemical effects
- Continuous media can be cut and perforated with a high degree of positional accuracy



#### Technical data

Dimensions		Width	Length	Height
	[mm]	242	446	274
General data				
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	105		
Max. printing length	[mm]	2000		
Interfaces		Serial (V.24 (RS-232)) / USB 2.0 / 10/100 Mbps Ethernet		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	10		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

#### Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
<b>Thermal transfer printer</b> , incl. connecting cable, Windows® printer driver and operating instructions, software	gray	THERMOMARK X1.2	5146231	1

#### Accessories

<b>Starter set, complete for THERMOMARK X1.2</b> consisting of: - Planning and marking software - THERMOMARK X1.2 thermal transfer printer - Ink ribbon - Label rolls		THERMOMARK X1.2-KIT	5146341	1
<b>Cutter</b> , for THERMOMARK X1...		THERMOMARK X1-CUTTER	5145290	1
<b>Perforator</b>		THERMOMARK X1-CUTTER/P	5146244	1
<b>Transport case</b> , with aluminum edges, for printer and accessories		THERMOMARK X1-CASE	5145300	1
<b>External media hub</b> , for roll diameters of 150 mm to 305 mm		THERMOMARK ROLL-ERH	5146448	1
<b>External media hub</b> , for roll diameters of up to 500 mm		THERMOMARK-ERH 500	5146309	1
<b>Ink ribbon</b> , length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110	5145384	1
<b>Ink ribbon</b> , specifically for high-temperature labels, EML-HT...	black	THERMOMARK-RIBBON 110-EML-HT	0800342	1
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMSU	0801358	1
	white	THERMOMARK-RIBBON 110-WMSU WH	0801359	1
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	THERMOMARK-RIBBON 64-WMSU	0801360	1
	white	THERMOMARK-RIBBON 64-WMSU WH	0801361	1

**THERMOMARK W2, thermal transfer printer for continuous shrink sleeve**



Thermal transfer for rolls



The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous WMS shrink sleeves

- Double-sided printing ensures optimum marking legibility
- The guide elements ensure easy handling when inserting the sleeve
- The user-friendly interface of the CLIP PROJECT software enables you to enter custom specifications for the labeling and marker length
- Black and white ink ribbons are available to facilitate color marking
- The printed markers can be easily and quickly separated along the perforations

Dimensions	
	[mm]
General data	
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
248	554	405
Print resolution	300 dpi	
Max. print width	105.6	
Max. printing length	1000	
Interfaces	Serial (V.24 (RS-232)) / USB 2.0 / 10/100 Mbps Ethernet	
Power supply	100 ... 240 / 50 Hz ... 60 Hz	
Weight	21	
Operating systems	MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)	

Description	Color
<b>Thermal transfer printer</b> , specially for shrink sleeve labeling on both sides, including perforation knife, connecting cable, Windows® printer driver, operating instructions, CLIP PROJECT advanced planning and marking software	
	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK W2	5146147	1

<b>External media hub</b> , for roll diameters of 150 mm to 305 mm		
<b>External media hub</b> , for roll diameters of up to 500 mm		
<b>External media hub</b> , for roll diameters of up to 500 mm		
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	
	white	
<b>Ink ribbon</b> , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	
	white	

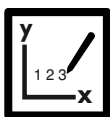
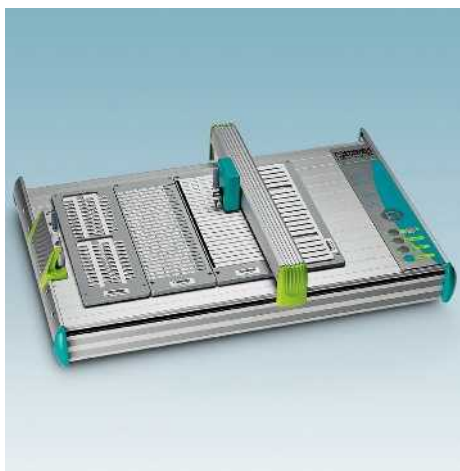
Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1



# Marking and labeling - MARKING system

## Printing systems

### CMS-P1-PLOTTER



Plotter



- During long periods of non-use, the plotter pens are stored safely in a pen station
- The pens are removed and deposited automatically
- The pen station of the CMS-P1-PLOTTER prevents the plotter pens from drying out
- An automatic marking preparation function ensures optimum marking results right from the first character
- The plotter is controlled with the CLIP PROJECT software
- The plotter can be connected to the computer quickly and easily via the Centronics or USB interface
- Easily operated with just a few buttons

Dimensions		[mm]
<b>General data</b>		
Lettering field size	[mm]	440 x 296 mm
Max. material height	[mm]	10.5
Max. plotting speed	[m/s]	0.4
Interfaces		
Input voltage / frequency	[V]	100 ... 240 / 50 Hz ... 60 Hz
Weight	[kg]	8
Operating systems		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Technical data		
Width	Length	Height
440	660	125

Description	Color
<b>Marking plotter</b> , incl. power supply unit, connecting cable (Centronics and USB), pen CMS-PEN 0,25, manual, planning and marking software	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER	5144615	1

<b>Starter set</b> , consisting of: - CLIP PROJECT, - CMS-P1-PLOTTER, - Magazines for UC-TM , UC-TMF, and UC-EMP, plus marking material - Ink and cleaning set
<b>Transport case for CMS-P1-PLOTTER</b> , rounded profile case with aluminum frame for a complete plotter system
<b>Covering hood for CMS-P1-PLOTTER</b> , flexible hood for protecting against contamination
<b>Set of seals for the pen station</b> , 4 replacement seals for the pen station of the CMS-P1-PLOTTER and 10 marking preparation plates, incl. assembly tool
<b>Pen plates</b> , for the pen station of the CMS-P1-PLOTTER
<b>Magazines and pens</b>

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER-KIT	5144628	1
CMS-P1-PLOTTER-CASE	5144631	1
CMS-P1-PLOTTER-COVER	5144806	1
CMS-P1-PENDEPOT	5144835	1
CMS-P1-PREPLATES	5145135	1
See page 46		



**CMS-P1-PLOTTER engraving unit**



Engraving



- The P1 ENGRAVING UNIT is the ideal marking solution for device and component marking applications that involve high levels of mechanical and chemical stress
- The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device
- To allow different line thicknesses, engraving chisels with diameters ranging from 0.2 ... 1.0 mm are available as accessories
- These are supplemented by a comprehensive product range of pre-assembled engraving materials see page 294
- These materials remain in position and do not slip when used with the CMS-P1-M/GPE ENGRAVING plotter magazine

Dimensions	
	[mm]
General data	
Power supply	[V]
Weight	[kg]
Speed range	[RPM]
Collet chuck	[mm]
Power consumption	[W]

Technical data		
Width	Length	Height
250	350	
110 ... 240 / 50 Hz ... 60 Hz		
8		
5000 ... 50000		
3		
150		

Description
<b>Engraving unit</b> , for the CMS-P1-PLOTTER, incl. operating instructions (English/German), data CD and engraving chisel

Ordering data		
Type	Order No.	Pcs. / Pkt.
P1 ENGRAVING UNIT	5145546	1

Engraving chisel, with a point angle of 15°	
Point diameter 0.2 mm	
Point diameter 0.3 mm	
Point diameter 0.4 mm	
Point diameter 0.5 mm	
Point diameter 0.7 mm	
Point diameter 1.0 mm	
<b>Engraving chisel set</b> , chisel with a point angle of 15°, point diameter: 0.2 mm, 0.3 mm, 0.4 mm, 0.5 mm, 0.7 mm, 1.0 mm	

Accessories		
P1 GRAVER 0.2	5145478	1
P1 GRAVER 0.3	5145481	1
P1 GRAVER 0.4	5145494	1
P1 GRAVER 0.5	5145504	1
P1 GRAVER 0.7	5145517	1
P1 GRAVER 1.0	5145520	1

<b>Vacuum cleaner bag</b> , 5 spare bags for replacement
<b>Magazine for the CMS-P1-PLOTTER</b> , for accommodating EMLP... and GPE... materials for engraving
- 1 GPE label sheet

P1 GRAVER SET	5145533	1
P1 ENGRAVING VC BAG	5145559	1
CMS-P1-M/GPE ENGRAVING	5145711	1



# Marking and labeling - MARKING system

## Printing systems

### Magazines for CMS-P1-PLOTTER



- Robust plastic magazines for labeling all commercially available marking materials
- Even compatible with marking sheets that have already been started
- Option of partial labeling
- In terms of its size, the magazine utilizes plotter capacity to the full
- We offer a wide variety of different magazines for marking materials. If you cannot find the right magazine for your materials, please get in touch

Description	Color
<b>Magazine, for CMS-P1-PLOTTER, for accommodating:</b> UC-TM ..., UC-TMN ..., UC3-TM ..., UC-WMC 1,9..., UC-WMC 3,1..., UC-WMTBA ..., UC-EM (17,5x9), UC-EM (18x8), UC-EM (21x8)	
For accommodating UC-WMC 4,4...	gray
For accommodating UC-WMC 5,6..., UC-WMC 7,5...	gray
For accommodating UC-TMF..., UC1-TMF..., UC2F-TM..., UC-WMT...	gray
For accommodating UC1-TM..., UC1U-TM..., UC2-TM...	gray
For accommodating: UC-EM..., UC-EMP..., UC-EMLP..., UC-EMSP..., and UC-WMTB...	gray
For accommodating: UC-WMCO ...	gray
<b>Plastic magazines, for CMS-P1-PLOTTER, for accommodating:</b>	
- 22 zack marker strips	
- 26 flat zack marker strips or ZBN strips	
- 2 zack marker sheets	
- 3 flat zack marker sheets	
- 22 contactor marker zack marker strips	
- 4 to 6 PABA marker bars	
- 30 marker pins ZB strips	
- 1 GPE label sheet	
- 20 strips LBHZ conductor marking	
- 1 GPE label sheet	
<b>Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4</b>	

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>P1 UC-MAG 1</b>	5146079	1
<b>P1 UC-MAG 2</b>	5146082	1
<b>P1 UC-MAG 3</b>	5146095	1
<b>P1 UC-MAG 4</b>	5146105	1
<b>P1 UC-MAG 5</b>	5146118	1
<b>P1 UC-MAG 6</b>	5146121	1
<b>P1 UC-MAG 7</b>	5146568	1
<b>CMS-P1-M/ZB</b>	5144699	1
<b>CMS-P1-M/ZBF</b>	5144709	1
<b>CMS-P1-M/ZBM</b>	5144660	1
<b>CMS-P1-M/ZBFM</b>	5144686	1
<b>CMS-P1-M/SS-ZB</b>	5144712	1
<b>CMS-P1-M/PAB</b>	5144741	1
<b>CMS-P1-M/BN-ZB</b>	5144725	1
<b>CMS-P1-M/GPE</b>	5144754	1
<b>CMS-P1-M/LBHZ</b>	5144738	1
<b>CMS-P1-M/GPE ENGRAVING</b>	5145711	1
<b>CMS-P1-PAD</b>	5144819	1

<b>Adapter plate for WMU magazines, for using the universal CMS-WMU replaceable frame with the magazine inserts of the CMS-MCP 3 plotter</b>
<b>Replacement fixation pad for CMS-P1-M/ZBFM, 9 self-adhesive fixation pads, sufficient for 3 magazines</b>
<b>Replacement fixation pad for CMS-P1-M/GPE and CMS-P1-M/GPE ENGRAVING, one fixation pad, sufficient for one magazine</b>
<b>Replacement fixation pad for CMS-P1-PAD, 1 fixation pad in DIN A4 format</b>

Accessories		
Type	Order No.	Pcs. / Pkt.
<b>CMS-P1-WMU-ADAPTER</b>	5144822	1
<b>CMS-P1-M/ZBFM-PAD</b>	5144848	1
<b>CMS-P1-M/GPE-PAD</b>	5144880	1
<b>CMS-P1-PAD/SPARE</b>	5144893	1

Plotter pens



- Plotter pens for high-quality product labeling
- Wipe-resistant with a perfect appearance
- Totally integrated product range consisting of plotter pens, ink, and cleaning fluid for the CMS-P1-PLOTTER plotter
- Both reusable and disposable plotter pens are available



Description	Color
<b>Disposable plotter pen</b> , non-refillable plotter pen, with pen station, completely filled with 1 ml CMS-INK-TR-C 5 ink, for high requirements	
Line thickness 0.25 mm	black
Line thickness 0.35 mm	black
<b>Pens</b> , incl. adapters, ink tank and pen station, for different line thicknesses, without ink	
Line thickness 0.25 mm	
Line thickness 0.35 mm	
Line thickness 0.50 mm	

<b>Cleaning set for pens</b> , consisting of: 1 cleaning cup, 2 cartridges of 10 ml cleaning liquid each and 2 spare sealing caps for the pen station	
<b>Cleaning cartridges with spare sealing caps</b> , 2 cartridges, each with 10 ml cleaning liquid and 2 caps	
	transparent
<b>Ink cartridge</b> , for CMS-PEN...	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
<b>CMS-DISPOSABLE-PEN 0,25 TR</b>	5146685	1
<b>CMS-DISPOSABLE-PEN 0,35 TR</b>	5146686	1
<b>CMS-PEN 0,25</b>	5067815	1
<b>CMS-PEN 0,35</b>	5067828	1
<b>CMS-PEN 0,50</b>	5067831	1

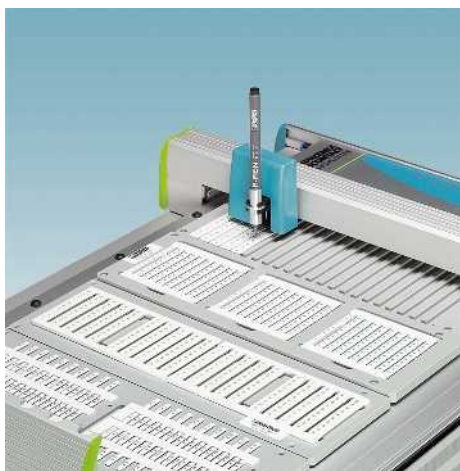
Accessories		
Type	Order No.	Pcs. / Pkt.
<b>CMS-R-SET-TR</b>	5146751	1
<b>CMS-R-FLUID-TR-C2</b>	5146752	1
<b>CMS-INK-TR-C5</b>	5146684	1



# Marking and labeling - MARKING system

## Printing systems

### Marker pen for plotter and manual labeling



- High-quality labeling of unprinted marking materials, can be performed manually or with the CMS-P1-PLOTTER
- Used in conjunction with the P-PEN ADAPTER when combined with plotter
- Disposable pen
- No handling of cleaning fluid required

Description	Color
<b>Disposable pen, non-refillable</b> , for manual labeling, can be also used for plotter marking when combined with the P-PEN ADAPTER	black
<b>Aluminum adapter</b> , to fix the P-PEN for plotter marking	

Ordering data		
Type	Order No.	Pcs. / Pkt.
P-PEN	0815211	10
Accessories		
P-PEN ADAPTER	0815224	1

Marker pen for manual labeling



- High-quality labeling of unprinted marking materials is also possible without the use of labeling devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter

Description	Color
Marker pen, refillable, for manual labeling, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, delivered without ink	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
X-PEN 0,35	0811228	1

Description	Color
Ink cartridge, for CMS-PEN...	black

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-INK-TR-C5	5146684	1

Marker pen for manual labeling

- High-quality labeling of unprinted marking materials is also possible without the use of labeling devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



Description	Color
Marker pen, not refillable, for manual labeling, line thickness 0.5 mm	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
B-STIFT	1051993	10



# Marking and labeling - MARKING system

## Printing systems

### Overview of marking material - printers



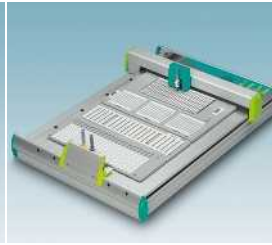
Marking system	BLUEMARK CLED	THERMOMARK CARD PLUS	THERMOMARK CARD	THERMOMARK ROLL
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### Terminal marking

UC-TM...	Page 58			
UC-TMF...	Page 62			
UC-TMN...	Page 66			
UCT-TM...	Page 82	Page 82	Page 82	
UCT-TMF...	Page 86	Page 86	Page 86	
UC1-TM...	Page 118			
UCT1...	Page 128	Page 128	Page 128	
UCT-EM...	Page 108	Page 108	Page 108	
US-TM...		Page 90	Page 90	
US-TMF...		Page 91	Page 91	
US-TML...		Page 92	Page 92	
ZB...				
ZBF...				
TMT...				Page 94
TML...				Page 98
SK...				Page 105

### Conductor/cable marking

WMTB-AL...	Page 161			
UC-WMC(O)...	Page 162			
AI-WM...	Page 175			
UC-WMT...	Page 176			
UC-WMTB(A)...	Page 179			
UCT-WMT...	Page 182	Page 182	Page 182	
UCT-WMS...	Page 186	Page 186	Page 186	
US-WMT...		Page 187	Page 187	
US-WMTB...		Page 190	Page 190	
US-WML...		Page 192	Page 192	
WML...R				Page 194
WMS... (pre-assembled)				Page 200
WMS... (continuous shrink sleeve)				Page 204
EMT...				Page 208
WMTW...				Page 209
WMT.../WMTB...				Page 210



THERMOMARK ROLL X1

THERMOMARK X1.2

THERMOMARK W2

CMS-P1-PLOTTER

P1 ENGRAVING UNIT

Page 58

Page 62

Page 66

Page 118

Page 68

Page 76

Page 94

Page 94

Page 98

Page 98

Page 105

Page 105

Page 162

Page 176

Page 179

Page 194

Page 194

Page 200

Page 200

Page 204

Page 204

Page 204

Page 208

Page 208

Page 209

Page 209

Page 210

Page 210

# Marking and labeling - MARKING system

## Printing systems

### Overview of marking material - printers



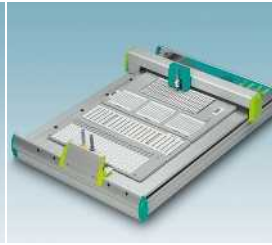
Marking system	BLUEMARK CLED	THERMOMARK CARD PLUS	THERMOMARK CARD	THERMOMARK ROLL
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### Device marking

EMLP-AL...	Page 231			
EMSP-AL...	Page 232			
EMP-AL...	Page 233			
UC-EMLP...	Page 234			
UC-EMSP...	Page 236			
UC-EMP...	Page 237			
UC-EM...	Page 240			
UCT-EM...	Page 246	Page 246	Page 246	
US-EMLP...		Page 258	Page 258	
US-EMP...		Page 262	Page 262	
US-EMSP...		Page 266	Page 266	
US-EMLSP...		Page 267	Page 267	
US-EML...		Page 268	Page 268	
US-EMLF...		Page 354	Page 354	
EML...				Page 270
EMLP...				Page 274
EMLF...				Page 278
EMLC...				Page 279
EML-HA...				Page 280
EML-HT...				Page 282
EML-ESD...				Page 284
EML-RM...				Page 286
EMLS...				Page 288
EMT...				Page 290
GPE...				
BMK...				
BMKL...				

### System marking

US-PML-W...		Page 320	Page 320	
PML-W...				Page 321
US-PML-P...		Page 326	Page 326	
PML-P...				Page 327
US-PML-M...		Page 334	Page 334	
PML-M...				Page 335
PML-T...				Page 342
US-PML-GHS...		Page 348	Page 348	
PML-GHS...				Page 349
US-EMLF...		Page 354	Page 354	
PMM...				Page 356



THERMOMARK ROLL X1

THERMOMARK X1.2

THERMOMARK W2

CMS-P1-PLOTTER

P1 ENGRAVING UNIT

Page 270  
Page 274  
Page 278  
Page 279  
Page 280  
Page 282  
Page 284  
Page 286  
Page 288  
Page 290

Page 270  
Page 274  
Page 278  
Page 279  
Page 280  
Page 282  
Page 284  
Page 286  
Page 288  
Page 290

Page 234  
Page 236  
Page 237  
Page 240

Page 274

Page 294  
Page 293  
Page 292

Page 294

Page 321  
Page 327  
Page 335  
Page 342  
Page 349  
Page 356

Page 321  
Page 327  
Page 335  
Page 342  
Page 349  
Page 356