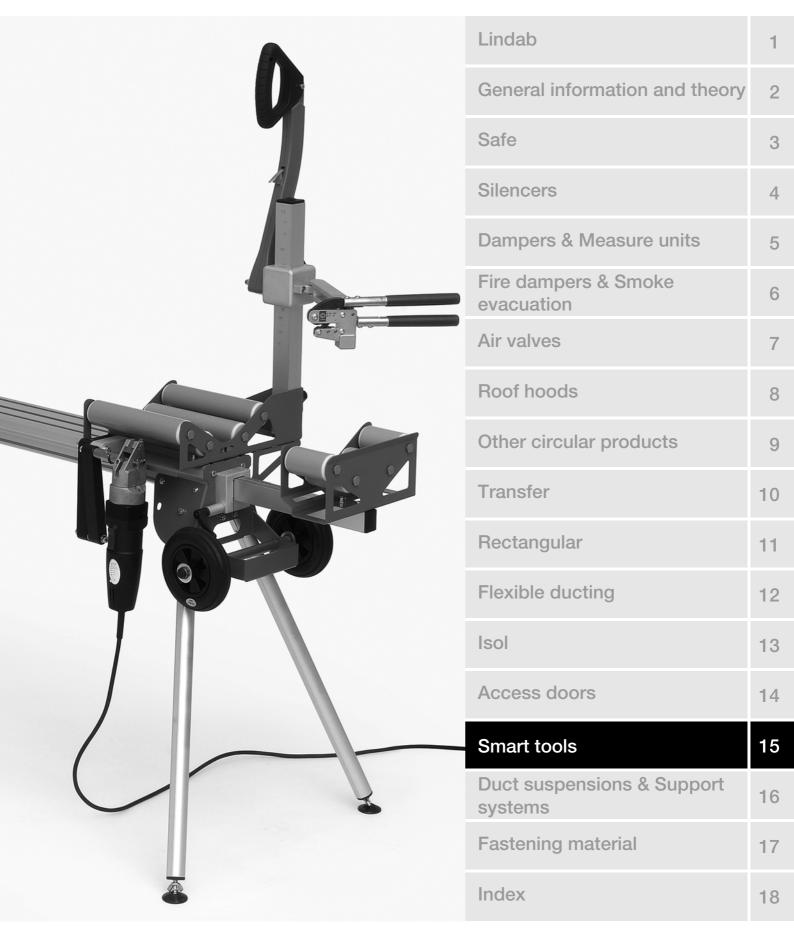
Smart tools





Content - Smart tools

SR Cutter	
	SRCS2619
Shears	CSS620
Click pliers kit	CSCPS2621
Click pliers	CSCP622
Needle cut pliers	NCP623
SR roller	SRR624
SR carrying handle	SRH625
Trolley	TRO626
Side bars	TROB627
Ring spanner	SPANN
Heavy duty knife	VALUE 200

Markingmeasure	TALMET630
Bits set	BITS631
Duct cover	DC632
Leakage tester	LTEST633
Joining aid tool	D3H634
Marking pen	PICA635
Duct lift	SRDL636
CO ₂ Logger	CDL 210637
Pressure meter	PC410638
Smoke gun	SPN642





Description

Working bench/platform for cutting circular ducts of diameters \varnothing 80–315 and lengths 200–3000 mm.

The bench is CE approved.

The bench is equipped with:

- wheels to very easily move the bench to the working spot where you momentarily are,
- foldable legs and a foldable knife arm to fold the bench to a very compact format,
- adjustable feet to becomes more stable on uneven surfaces,
- a handle to offer a good grip when folding and unfolding the bench,
- scale on telescopic arm to set the wanted duct length,
- rollers to rotate the duct,
- a knife to make a designed start cutting hole for the shears,
- an arm to guide the shears.

Spare parts are available.

Technical data

Folded		
Length	1 645	mm
Width	470	mm
Height	350	mm
Erected		
Length	1 880	mm
Length (with extended		
telescope arm)	3 140	mm
Width	630	mm
Height	1 230	mm
Working height	820	mm
Maximum load	75	ka
Weight	23	kg
		9

Note

The bench is delivered without any:

- Shears to cut the duct,
- Needle cut pliers to cut the needle,
- Click pliers to make the notches for the Click system,
- Click pliers kit to support the click pliers.

These tools, if wanted, have to be ordered separately.

In order to			
cut a duct	cut a duct and cut the needle	cut a duct and cut the needle and make Click notches	
	you need	•	
SR Cutter	SR Cutter	SR Cutter	
+	+	+	
Shears	Shears	Shears	
	+	+	
	Needle cut pliers	Needle cut pliers	
		+	
		Click pliers	
		+	
		Click pliers kit	

SRCS2 3000

Product Length 6

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Shears CSS

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Description

Shears to cut circular ducts of sheet metal thickness up to $0.9 \ \text{mm}$.

The shears is also suitable for general sheet metal cutting, e.g. holes for take-offs, since it is easy to detach the shears from the bench and it is equipped with jaws for radius cuts.

The cutter comes in four types adapted to the different electrical standards in different countries:

Туре	Country	Voltage V	Frequency [Hz]
EU	Most European	230	50
CH	Switzerland	230	50
UK	United Kingdom	110	50
US	United States of America	110	60

ΕU

Spare parts are available.

Technical data

Model	3514-7R	
Power	500	W
Stroke frequency	2400	1/min
Weight	2,2	kg

Ordering example

Click pliers kit

CSCPS2



Description

Stand to support and guide the Click pliers.

The stand is designed to be used together with the SR Cutter, SRCS2.

Technical data

Length 210 mm Weight 0,6 kg

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Ordering example

CSCPS2

Product

Click pliers

CSCP

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Description

Pliers to produce the notches for the Click joining system.

The pliers is intended to be used together with the SR Cutter, SRCS.

The pliers sits on a stand, CSCPS, which guides it to facilitate the work.

The pliers can also be used to make notches on ducts away from the bench, since the pliers is very easily detachable from the support.

The pliers comes in two sizes adapted to the different insertion lengths of different duct diameters:

Size nom	Duct diameter mm	Duct insertion length mm
40	80–224	40
60	250–315	60

A special gauge tool, CSNC, to check the notch is delivered together with every pliers order.

Technical data

CSCP 40
Length 290 mm
Weight 1,0 kg

CSCP 60 Length

Length 290 mm Weight 1,1 kg

Ordering example

Product Dimension (size)

Needle cut pliers



Description

Pliers to cut away the very sharp and dangerous needle which is formed when cutting a spirally lockseamed duct.

Advantages

- Cut off the needle without harming the duct wall.
- Sturdy construction for reliable function and longevity.
- Opening spring for easier work.
- Operated by one hand.

Technical data

Length 200 mm Weight 0,35 kg

NCP

Product

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Description

SRR is a cradle for cutting of ducts with \emptyset 315–1250 mm. The duct is placed on two or three cradles for simple, fast and ergonomically correct rotating at marking of cut length and at cutting.

The cradle substantially reduces the need of free floor space, and makes it easier to arrange a proper working place e.g. with simpler cord handling.

Made with lightening holes for smaller weight and easier carrying.

The rollers are available as spare part and can easily be exchanged.

SRR

Weight: 5,0 kg

Ordering example

Product

Advantages

The duct coming up a little from the floor surface leads to the following advantages:

- · faster to cut the ducts,
- · easier to insert fittings in the duct,
- easier to slip on flat bar flanges.

The duct being easy to rotate also leads to the following advantages:

- full access all around and better working position to screw/rivet a fitting,
- easier to cut hole for and to screw/rivet e.g. a saddle piece.

Painted ducts run much smaller risk of being scratched.

Easily damaged floors run much smaller risk of being damaged.

Material

Manufactured of sturdy, painted steel sheet metal to be robust.



SR carrying handle





Description

SRH is a carrying handle which makes it substantially easier to manually move circular ventilation ducts at the building site.

The handle fit ducts Ø 315–1250, but it is adequate to limit its use to the sizes \emptyset 400–800. You ought not to exceed the recommended maximum carrying weight of 25 kg per person.

One person at each duct end uses a handle each.

Weight: 2,0 kg

Advantages

- Connects and disconnects in a moment.
- Provides a superior better and more secure grip compared to hold directly on to the duct.
- Can be gripped with one or two hands.
- Can be held on the shoulder to relieve the load on the
- Eliminates the risk of hitting the legs to the edge of the duct and makes it possible to walk with "normal" step length.
- Gives a much better all-around-view and in particular you can see where you put your feet.

SRH

Product

(C) Lindab

15

Trolley

Ordering example

Product

TRO



Description

TRO is a trolley which makes it substantially easier and more ergonomic to manually move circular ventilation ducts and other heavy products at the building site.

The trolley is suitable for ducts \emptyset 400–1250.

Trolley with loaded duct is easily moved by one person. Maximum load: circa 100 kg.

Weight: 4,0 kg.

Advantages

- Very easy to load and unload the duct.
- Soft punctureproof tyres.
- The wheels manages passing of smaller obstacles and semi-rough surface.
- Foldable for easier storage.
- You can also use it to transport large fittings in the building place like for example silencers and bends in big diameters.
- More flexibility at the building site as you can work
- Improved ergonomics and workig conditions as you reduce lifting of heavy products.

Side bars



Description

TROB are side bars to the trolley TRO which makes it possible to transport many small ventilation ducts at the building site at the same haulage.

The side bars are suitable for ducts \emptyset 80–500.

Trolley with bars and loaded ducts is easily run by one person.

Weight: 6,0 kg

Advantages

- Very easy to snap the bars on and off without any need of tools.
- Equipped with a handle that gives a good manoeuverability and a comfortable driving position.
- The handle can be adopted to fit both right- and lefthanded persons.
- Removable for easier storage.

TROB

Product

(C) Lindab

Ring spanner

SPANN

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Ordering example

Product

SPANN

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Description

SPANN is a ring spanner with ratcheting mechanism for sheet metal screws with 1/4" hexagon head.

The spanner has a hexagon grip.

The other end has an 8 mm fixed ring spanner with a twelve-point grip.

Advantages

- Suitable in cramped spaces where there is no room for a common electric screwdriver.
- The stem is angled 15° for easier handling.



Heavy duty knife





Description

KNIFE is a sturdy and durably sharpened knife for tough tasks e.g. hole-making in ventilation ducts e.g. at cutting with shears.

The blade is manufactured of 3 mm Japanese carbon steel and sharpened with double edge angles.

The handle and sheath are manufactured of extra impact resistant PP plastic.

Advantages

- The sheath has a unique function to attach around a button on the clothing or to a belt so it doesn't fall off, at the same time it is easy to remove.
- Due to the thickness of the blade and the double edge angles it makes a perfect hole in the duct when cutting with a nibbler.
- More rigid compared to other knifes when used to make hole in steel ducts.

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Ordering example

KNIFE

Product



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Ordering example

Product

TALMET

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Description

TALMET is a combination tool for measuring and marking of lengths up to 3 m. Measures both external and internal lengths. Equipped with three steel scribing edges for marking. Locks the setting automatically and has a two-step release mechanism.

 $\pi\mbox{-scale}$ for direct reading of the diameter when measuring the circumference.

Advantages

- No need to see the scale, i.e. measurements can be taken at hard-to-reach or dark places.
- Transfers a measure directly without any need to read the scale, nor to remember nor to set the measure.
- Can be operated with one hand only.
- · Can be used as a scratch gauge.
- Can be used as a spacer or gauge block.
- Can be used as a scribe-compass.
- Easily exchangeable scale and extender.
- Small dimensions goes into any pocket.

Lindab

Bits set BITS



Description

A bit collection specially selected to suit mounting of ventilation systems.

16 bits sits in a holster of red, flexible plastic.

The holster has a smart metal clip for rapid attachment to and removal from clothes or belt.

The supplied bits are:

- Screwdriver Torx, T-20 W
- Screwdriver Torx, T-25 W
- Screwdriver Torx, T-30 W
- Screwdriver Phillips, PH 2
- Screwdriver Phillips, PH 2, 70 mm long
- Screwdriver Phillips, PH 3
- Screwdriver Robertson, R 2
- Screwdriver Robertson, R 3
- Screwdriver slotted, 146 mm
- Bit holder with quick lock, j" for j" bit
- Magnetic socket, hexagon, j" for sheet metal screw
- Spring socket, hexagon, 8 mm for bolt
- Spiral drill, 3,3 mm for blind rivet 3,2 mm
- Spiral drill, 3,3 mm for blind rivet 3,2 mm
- Spiral drill, 4,1 mm for blind rivet 4,0 mm
- Spiral drill, 5,0 mm for separation of Click system

Technical data

Length90 mmWidth60 mmThickness25 mmWeight0,18 kg

Advantages

- A variety of useful bits are always at hand.
- The bit kit fits snugly in a pocket.
- The bit kit can easily be attached to your clothes.

Ordering example

BITS

Product

Cindab

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Description

The duct cover protects your ducts from the weather and keeps them clean during transport and short-term storage. Not suitable for permanent storage.

- Equipped with Velcro®-fastenings at one gable.
- Has a binding loop at each bottom corner.

Advantages

- Protects your ducts in bad weather conditions.
- Keeps ducts clean during transport and storage.

Size nom	Length mm	Height mm	Width mm	m kg
3000	3100	1250	1100	2,1
6000	6100	1250	1100	5,4

Product DC 3000
Size





Description and advantages

Complete equipment for field measuring of leakage in duct systems, e.g. for handing over measuring according to EN 12599.

Also for serial testing of production or in laboratories directly connected via USB.

Measures leakage, leakage factor and achieved tightness class according to EN 13779.

Suitabel for measurements according to the standards EN 1507 and EN 12237 plus EN 1751 and EN 15727.

Large working range, for big systems as well as single fittings and residental ventilation systems.

Simple handling and automatic measuring cycle.

Operate with detailed user guide or in expert mode.

Printing of measuring protocol on site with termo printer.

Permanent data storage possible.

Customer and measure data management via supplied PC program.

Handy set, main device in plastic trunk, accessories in aluminium trunk, easy to transport and store.

Available special accessories and articles of consumption

Set of LTFP filter pads, 5 pcs.

Plastic hose (Ø 50 mm length 10 m) with end cover EPF Ø 100

Set of printer paper, for TD 600, 10 rolls Seal-off bladder, size 3 for \emptyset 100–250 mm Seal-off bladder, size 5 for \emptyset 200–400 mm Seal-off bladder, size 10 for \emptyset 315–630 mm

Ordering example

	LTEST	600
Product		ĺ
Туре		

Delivery includes

Leakage meter LTEST 600

Adapter type 0,3 Adapter type 3,0

Connection cable, 230 V, 10 A (length 2,5 m) Termo printer TD 600 incl. 4 batteries AA/LR6

Printer paper, 10 rolls

Plastic hose (Ø 50 mm, length 4 m) with end cover

EPF Ø 100

Rubber hose (Ø 10 mm, length 10 m) with end cover

EPF Ø 100

Hose for adapter 0,3 (length 4 m)

Brass nipples, 2 pcs. Set of filter pads, 5 pcs.

Seal-off set, for circular, consisting of

Seal-off bladder (size 3), 5 pcs. Seal-off bladder (size 5), 5 pcs. Seal-off bladder (size 10), 5 pcs.

Hand air pump

USB-cable

CD with software, functions:

Customer and measure data management Firmware update

User manual

Calibration protocol

Technical data

Pressure measurement

Principle piezo-resistive semi-conductor

sensor

Measuring range -7000 to +7000 Pa

Resolution 0,1 Pa to ± 900 Pa, above 1 Pa Accuracy the highest of $\pm 0,5$ Pa or $\pm 2,5$ % of

reading

Flow measurement (at 1013 hPa and 20 °C)

Principle hot film anemometer

Measuring range 0,0000 to 55,00 l/s (230 V, 50 Hz)

0,0000 to 40,00 l/s (110 V, 60 Hz)

Resolution 0,0001 l/s up to 0,3000 l/s, 0,001 l/s

up to 3,000 l/s, 0,01 l/s above

Accuracy the highest of $\pm 0,0009$ l/s or 5 % of

reading

Measuring range for the adapters

Adapter 0,3 0,01 to 0,3000 l/s Adapter 3,0 0,300 to 3,000 l/s Without adapter 3,01 to 55,00 l/s

General data

Power supply 230 V, 50 Hz

110 V, 60 Hz

Power consumption max. 9 A
Working temperature +5 to +40 °C
Storage temperature -20 to +50 °C
Main device weight
Total weight approx. 25 kg

Lindab [®]

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Joining aid tool

D3H

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Description

A helping tool to join rectangular ducts and fittings. The tool is clamped on to the already mounted product. The tool carries the unmounted product's one end so you don't have to hold it yourself and also it guides the unmounted product in place so that the joining profiles are located at right position close to each other.

The tool only works at horizontal duct runnings.

NOTE! The tool only works with products equipped with joining profiles type LS.

Technical data

Length	240 mm
Width	85 mm
Height	190 mm
Weight	0,9 kg



Ordering example

Product

D3H



Marking pen





Length 160 mm Width 17 mm Weight 0,02 kg

Technical data

Description

Pen for marking on most surfaces/materials – also when dirty, wet or oily.

From shiny surfaces the marking can simply be wiped of with a damp cloth or alike.

A 6,5 mm thin and 40 mm long tip of stainless steel makes it easy to mark in narrow spaces, e.g. deep holes for screws in consoles.

A solid 2,8 mm fat lead is fed with a push of the thumb.

A sharpener for the lead is integrated in the sheeth.

A solid, protective sheath with a sturdy clip makes for a simple and secure fastening to a pocket.

A bright flourescentish green colour of the sheeth with a high visability makes it easy to find the pen should it be mislaid or dropped.

Refill leads available on request.

Colour of lead Graphite grey

Ordering example

PICA

Product

(C) Lindab

18



Description

A helping device intended to lift and hold primarily circular ventilation ducts at horizontal mounting.

The product, to be installed, is lifted with the help of a manually operated winch which is automatically braked when the crank is still.

The product supporting forks can slide along the arms in order to adapt to products of different lengths.

The feet/legs have free turning wheels to easy fine adjust the position of the product and facilitate to move the lift around.

The lift requires a smooth floor surface.

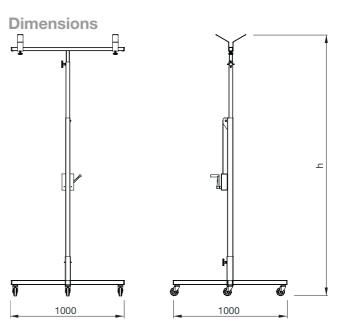
The lift can be rolled through a door width of 700 mm.

The lift can easily be separated in three major parts (feet/legs, pillar and arms) for easier transportation and storage.

Warning for risks:

Since working with the duct lift means handling of weights at heights this involve some risks. Great care must be taken. Pay special attention to the following risks:

- Risk to stumble over the lift's feet/legs when placing the product on the forks.
- Risk to hurt the back when placing the product on the forks. Maximum load is 25 kg.
- Risk for the product to fall off from the forks.
- Risk for the lift to collapse or to tip over if overloaded.
 Maximum load is 25 kg.



Technical data

Maximum load on the lift 25,		kg
h _{min} h _{max}	1800 3000	
Storage size Weight	1620×850×320 20,1	

Spare parts

DLCRA	Crank
DLWIR	Wire
DLWIN	Winch





	SRDL	25
Product		
Capacity	<u> </u>	



Indoor Air Quality Meter

CDL 210



Description

The CDL 210 indoor air quality meter measures the CO_2 level, the air temperature and the humidity and logs the measured data. It is therefore ideal for the monitoring and the evaluation of the interior climate in living spaces and in commercial premises.

Technical data

CO ₂	Range: 0–6 000 ppm Resolution: 1 ppm Accuracy: ± 50 ppm or ± 5% of reading
Air temperature	Range: -10 till +60 °C Resolution: 0,1 °C Accuracy: ± 0,6 °C
Relative humidity	Range: 5–95 % Resolution: 0,1 % Accuracy: ±3 % (10–90 %), ± 5 % (other values)
Number of measure- ment series	5 333 in total
Log-interval	0:00:01 - 4:59:59 H:MM:SS

Applications

Determination of indoor air quality by combined measurement of

- CO₂ content
- The air temperature
- Air humidity
- Monitoring in living rooms, meeting rooms, commercial and public areas (for example, schools) and industrial applications. (Moisture problems, etc.)

Advantages

- Simple operation
- Data transfer via USB cable
- Fast display of all three parameters in chart form using the enclosed software
- Data transfer in csv format, readable with Excel
- Highly visible display

The support of your sales and consulting activities: Indoor air quality - the demand in new norms and guidelines!

Delivery with

- Power supply
- USB data cable
- PC software

CO₂-limit:

In literature you can find the following about ${\rm CO}_2$ concentrations as a rule of thumb:

<1000 ppm (hygienically harmless) 1000 – 2000 ppm (hygienically notable) > 2000 ppm (hygienically unacceptable) 10

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CDL210

Product



PC410

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Description

The meter PC410 is very versatile. Among it's many properties is a unique capability to handle the setting of valves and air terminal units with variable k-factors. This very much simlifies the balancing of ventilation systems. The meter is hence very suitable for use together with Lindab's MBB-box.

Ordering example

	PC410	ENSE
Product		
Гуре		

Features

- Possibility to measure variable k-factors
- Logs data over time
- · Magnet which attaches it to ducts
- Transfers data via USB
- · Can be operated with one hand
- Display and print in English and Swedish ENSE

Supplied with

- Batteries and instruction manual
- 1 plastic box
- An adjustable carrying strap 1,5 m
- 1 silicone hose Ø 3,5 mm, t 1,5 mm, length 6 m
- A rubber tube Ø 5,5, t 2 mm, length 1,5 m

Optional

- Type AF for absolute pressure and internal moisture measurement
- · Display and print in English and German ENDE
- Display and print in English and French ENFR

Differential pressure	Range	-10 000 to +10 000 Pa
(internal with temperature compensated Piezo-bridge)	Accurancy	< 3 % of the reading
		< 0,3 Pa in the range -10 to +10 Pa
	Resolution	1 Pa
		0,1 Pa in the range -1100 to +1100 Pa
Temperature	Range	-20 to +60 °C
(internal with NTC-sensor)	Accurancy	<1 °C
	Resolution	0,1 °C
Temperature (optional)	Range	2 channels, -20,0 to +800,0 °C
(external with e.g. temperature pliers or surface temperature sensor)	Accurancy	1,5 % of the reading, according to EN 50379-2
		< 2 °C in the range -20 to +133 °C
	Resolution	0,1 °C
Relative humidity (optinal)	Range	0 to 100 % RH, non condensating
(internal)	Accurancy	< 2 % RH
		< 3 % RH in the range 90 to 100 % RH
	Resolution	0,1 % RH
Absolute pressure (optinal)	Range	30 000 to 110 000 Pa
(internal)	Accurancy	< 1,5 %
	Resolution	10 Pa



PC410



Optional features

Humidity and absolute pressure measurement are optional when ordering the PC 410, see page 1. Retrofit is possible but must be made by the manufacturer.

More opportunities are available with the help of additional accessories:

PC410DAT

PC software for data transfer, data management and any updates, incl. 1 USB-cable

PCSRS

S tube probe with integrated temperature sensors for flow measurement in duct

PCKAP

Capillary tubes for measuring pressure difference between rooms or outdoor air (such as 4 Pa-test)

PCPRA

Prandtl tube, 1000 mm long, Ø 7 mm

TD600

Thermal Printer

LTPP

Printer paper for thermal printer TD 600. Set of 10 rolls

PCAKKU

NiMH battery pack, 2 Ah

PCLGA400

Battery Chargers

Areas of use

- Pressure Measurements
- Flow Measurements
- Temperature measurement
- Humidity (internal)
- Energy efficiency of heating systems
- Temporary data monitoring / evaluation
- Suitable for handing over tests according to DIN EN 12 599

Ordering example

PC410DAT

Product

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PC410

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Accessories / Supplies

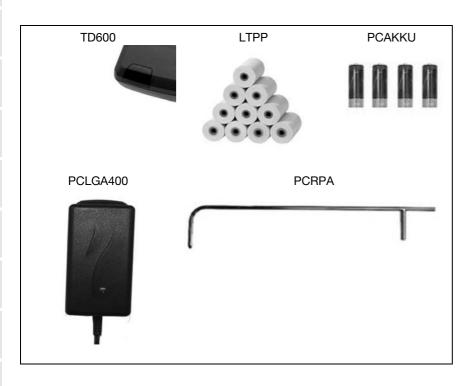
TD600 thermal printer, with one roll of thermal paper and 4 batteries. Can also be used with Lindab Leakage Tester.

LTPP printer paper for thermal printer TD600. Set of 10 rolls, 57 mm wide

PCAKKU NiMH battery pack with four batteries, two Ah

PCLGA400 battery charger with adapter plugs EU, U.S., UK, Charging time: 3 hours

PCPRA Prandtl pitot tube, 1000 mm long, Ø 7 mm. Pitot factor 1,0.



Ordering example

TD600 Product

PC410

Accessories for pressure and flow measuring

PCSRS

Type S Pitot tube with integrated temperature sensor for flow measurement in air control systems and heating systems.

Length 260 mm, maximum insertion length 150 mm.

For measuring holes Ø 12 mm.

By PCSRS is measurement of 0,1 m/s possible.

Good resolution because of the favorable Pitot tubes factor 0,93.

Temperature range -20 to +400 °C.

PCKAP

Capillary tubes for pressure differential between rooms or outdoor air (such as 4 Pa-test).

2 × capillary tubes of 3 m, hose fittings and silicone tubing



Accessories for temperature measurement and heating

PCTF5

Gas and air temperature sensor, max. 900 $^{\circ}\text{C}.$

PCZA500

Measuring pliers for surface temperature measurement. To 100 °C, for tubes \varnothing 6–35 mm.

PCHC

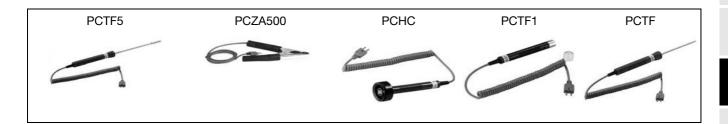
Special wall temperature probe. Encapsulated sensors to measure surface temperature. For the thermal control according to DIN EN 15378. To measure the surface temperature of boilers, roofs and walls, decide value, etc. Measuring range up to 100 °C.

PCTF1

Surface probe. Measuring range to max. 200 °C.

PCTF4

Penetration temperature probe. Measuring range to max. 600 °C.



Ordering example

Product Product

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Description

The smoke gun makes it easy to find leaks in your ventilation system. It is also very good for demonstrating air flows, for example when controlling that your kitchen fan works as it should. The smoke from the smoke gun is not hazardous and the smoke gun only dispenses smoke when the trigger is pulled. It is fueled with oil that is very easy to refill.

Design

Standardset SPN, Smoke Gun + Fluid

Can be ordered with a protective storage box for Smoke gun and batteries; SPNK

Supplies

Fluid, SPF, 90 ml.

Advantages

- Makes it easy to find leaks.
- Makes it easy to demonstrate air flows.
- Easy to refill.
- No need for an open flame to generate smoke.

Ordering example

SPN

Product

