

Time / Temperature Displays



- ⇒ LCD or LED technique
- ⇒ Display of time, date and temperature
- ⇒ weatherproof construction

GENERAL

Digital time and temperature displays for outdoor usage have to be readable optimally in all weather and even in direct sunshine. Also from critical viewing angles it must be possible to read the display without any problems.

The Brandmaier time and temperature displays of the series CT are especially built for outdoor applications in order to get best long-term reading attributes in all weather.

As we use only high-quality components concerning LEDs, LCD-glasses, temperature sensors and DCF-receivers you get a technically sophisticated product with a very good price-performance ratio.

APPLICATION FIELDS

These displays are used in places where you have got a high passenger traffic volume. Also is it possible to create house advertising by displaying these data e.g. with coloured big letters.

The following values can be displayed in a temporal change:

- time
- date
- temperature

The values will be displayed with 6 digits on the LED as well as the LCD variant.

08:15

25.04.

-12°C

TECHNIQUE

You can get the displays in LED and in LCD technique. Both variants are available in single- and double-sided construction with different mounting possibilities.

The temperature sensor can be installed up to 100 m away from the display. On request it will be delivered with a cover to be protected against direct sunshine.

All displays have got a mains supply of 230 VAC as a standard. Other mains supplies on request.

The housings are powder-coated in our standard colour RAL 5007. But of course they are also deliverable in all other RAL colours or in silver anodized according to customers' wishes.

LED technique

- readable in direct sunshine
- automatic brightness control of the LEDs according to the daylight
- very wide viewing angle of the LEDs (110° horizontal, 55° vertical)
- absolutely noiseless
- high-quality DCF-receiver
- display of the characters as a full matrix, any character sizes are possible (no limit)
- service-friendly construction
- front panel made of polycarbonate antireflex (optional ESG glass)

standard character height : 100, 120, 240, 365, 480, 730 mm

character colours: red, yellow, green, blue, white

illustration of a number as an example:

A digital display showing the number 25 in a dot-matrix font. The digits are composed of small dots, and the number is centered on the page.

LCD technique

Liquid crystal displays are passive displays. With controlled voltage in defined segments the translucence can be switched.

The LCD displays are usable for indoor as well as outdoor applications. They are also excellently readable in direct sunshine. Their viewing angle is nearly endless.

The characters can be displayed in the 7-segment font and in the 38-segment font. In all fonts the time, date and temperature information will be displayed 6-digit.

By using matrix glasses character heights up to 1100 mm are reachable.

The LCD glasses exist in two variants, transflective as well as reflective. With the transflective variant the LCD glasses are backlighted by a conventional neon lamp so that the characters can be read also by night without any problems.

Concerning the reflective variant the light which is shining into the display is reflected so that backlighting is not necessary. In this case it is possible to get very small housing depths and a low power consumption. However if you would like to read these displays also by night they have to be spotlighted from outside.

- readable in direct sunshine
- absolutely noiseless
- high-contrast display of the characters in yellow colour on a dark background or in white colour on a blue background
- very wide viewing angle (approx. 140° in all directions)
- high-quality DCF-receiver
- display of the characters in 7-segment font or 38-segment font
- transflective and reflective variant
- service-friendly construction

7-segment font

The 7-segment font is used for numerical purposes. All numbers, some letters and special characters can be displayed.



Standard character height:	100, 150, 250 mm
Character colours:	yellow font on dark background white font on blue background
Module technique:	transflective (with backlighting of the LCD glasses) reflective (without backlighting, because of utilisation of the surrounding light)
Character set:	all numbers 0-9, some letters and special characters
Viewing angle:	140°

38-segment font

The 38-segment font is used for alphanumerical purposes. All numbers, all capital letters and some special characters are represented.



Standard character height:	100, 160, 250 mm
Character colours:	yellow font on a dark background white font on a blue background
Module technique:	transflective (with backlighting of the LCD glasses) reflective (without backlighting, because of utilisation of the surrounding light)
Character set:	all numbers 0-9, all capital letters, some special characters
Viewing angle:	140 °

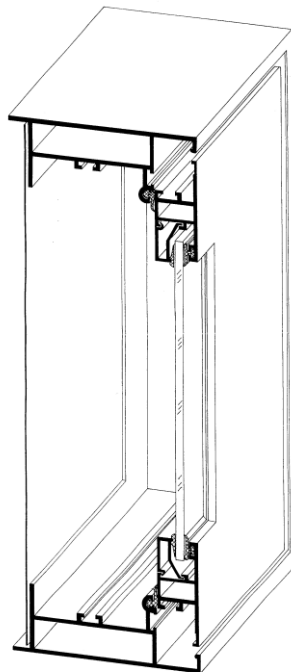
INTERFACES

- DCF-input for radio-controlled clock
- temperature sensor

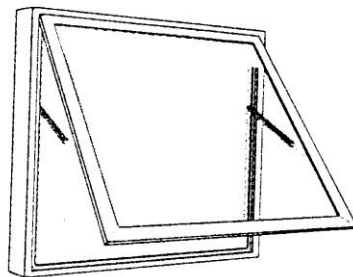
THE HOUSINGS

Housing of the Series D120

construction:	1- or 2-sided
application field:	indoor and outdoor weatherproof and especially suitable for outdoor purposes. As the housing has a forced ventilation, under normal conditions there is no condensation inside the housing.
depth	120 mm
housing material:	double section aluminium profile
housing colour:	standard: silver anodized, seawater-resistant aluminium alloy option: all RAL-colours deliverable
open the housing:	from the front: Please unlock the front door and turn it up. The front door will be kept open by gas-pressurized springs.



Open the housing by gas-pressurized springs.



Our standard displays of the LED-series CT

designation	character height [mm]	colour LED	dimension (WxHxD mm)	sides	weight
CT 100-RS	100	red	490 x 250 x 110	1	9 kg
CT 100-YS	100	yellow	490 x 250 x 110	1	9 kg
CT 100-GS	100	green	490 x 250 x 110	1	9 kg
CT 100-BS	100	blue	490 x 250 x 110	1	9 kg
CT 100-RD	100	red	490 x 250 x 220	2	15 kg
CT 100-YD	100	yellow	490 x 250 x 220	2	15 kg
CT 100-GD	100	green	490 x 250 x 220	2	15 kg
CT 100-BD	100	blue	490 x 250 x 220	2	15 kg
CT 120-RS	120	red	510 x 280 x 110	1	10 kg
CT 120-YS	120	yellow	510 x 280 x 110	1	10 kg
CT 120-GS	120	green	510 x 280 x 110	1	10 kg
CT 120-BS	120	blue	510 x 280 x 110	1	10 kg
CT 120-RD	120	red	510 x 280 x 220	2	16 kg
CT 120-YD	120	yellow	510 x 280 x 220	2	16 kg
CT 120-GD	120	green	510 x 280 x 220	2	16 kg
CT 120-BD	120	blue	510 x 280 x 220	2	16 kg
CT 240-RS	240	red	950 x 480 x 110	1	25 kg
CT 240-YS	240	yellow	950 x 480 x 110	1	25 kg
CT 240-GS	240	green	950 x 480 x 110	1	25 kg
CT 240-BS	240	blue	950 x 480 x 110	1	25 kg
CT 240-RD	240	red	950 x 480 x 220	2	40 kg
CT 240-YD	240	yellow	950 x 480 x 220	2	40 kg
CT 240-GD	240	green	950 x 480 x 220	2	40 kg
CT 240-BD	240	blue	950 x 480 x 220	2	40 kg
CT 365-RS	365	red	1.300 x 570 x 110	1	40 kg
CT 365-YS	365	yellow	1.300 x 570 x 110	1	40 kg
CT 365-GS	365	green	1.300 x 570 x 110	1	40 kg
CT 365-BS	365	blue	1.300 x 570 x 110	1	40 kg
CT 365-RD	365	red	1.300 x 570 x 220	2	60 kg
CT 365-YD	365	yellow	1.300 x 570 x 220	2	60 kg
CT 365-GD	365	green	1.300 x 570 x 220	2	60 kg
CT 365-BD	365	blue	1.300 x 570 x 220	2	60 kg
CT 480-RS	480	red	1.700 x 700 x 110	1	60 kg
CT 480-RY	480	yellow	1.700 x 700 x 110	1	60 kg
CT 480-RG	480	green	1.700 x 700 x 110	1	60 kg
CT 480-RB	480	blue	1.700 x 700 x 110	1	60 kg
CT 730-RS	730	red	2.400 x 950 x 110	1	100 kg
CT 730-RY	730	yellow	2.400 x 950 x 110	1	100 kg
CT 730-RG	730	green	2.400 x 950 x 110	1	100 kg
CT 730-RB	730	blue	2.400 x 950 x 110	1	100 kg

Other sizes on request.

Our standard displays of the LCD-series CT

designation	character height [mm]	colour LCD	back-- ground	number of segments	dimension (WxHxD mm)	sides	weight
CT 100-YS-7-LCD	100	yellow	dark	7	680 x 330 x 110	1	14 kg
CT 100-WS-7-LCD	100	white	blue	7	680 x 330 x 110	1	14 kg
CT 100-YD-7-LCD	100	yellow	dark	7	680 x 330 x 220	2	20 kg
CT 100-WD-7-LCD	100	white	blue	7	680 x 330 x 220	2	20 kg
CT 150-YS-7-LCD	150	yellow	dark	7	950 x 380 x 110	1	17 kg
CT 150-WS-7-LCD	150	white	blue	7	950 x 380 x 110	1	17 kg
CT 150-YD-7-LCD	150	yellow	dark	7	950 x 380 x 220	2	25 kg
CT 150-WD-7-LCD	150	white	blue	7	950 x 380 x 220	2	25 kg
CT 100-YS-38-LCD	100	yellow	dark	38	860 x 330 x 110	1	14 kg
CT 100-WS-38-LCD	100	white	blue	38	860 x 330 x 110	1	14 kg
CT 100-YD-38-LCD	100	yellow	dark	38	860 x 330 x 220	2	20 kg
CT 100-WD-38-LCD	100	white	blue	38	860 x 330 x 220	2	20 kg
CT 160-YS-38-LCD	160	yellow	dark	38	860 x 450 x 110	1	17 kg
CT 160-WS-38-LCD	160	white	blue	38	860 x 450 x 110	1	17 kg
CT 160-YD-38-LCD	160	yellow	dark	38	860 x 450 x 220	2	25 kg
CT 160-WD-38-LCD	160	white	blue	38	860 x 450 x 220	2	25 kg
CT 250-YS-38-LCD	240	yellow	dark	38	1.250 x 550 x 110	1	27 kg
CT 250-WS-38-LCD	240	white	blue	38	1.250 x 550 x 110	1	27 kg
CT 250-YD-38-LCD	240	yellow	dark	38	1.250 x 550 x 220	2	35 kg
CT 250-WD-38-LCD	240	white	blue	38	1.250 x 550 x 220	2	35 kg

Other sizes on request.