

Numerical Displays

Series NU



- ⇒ any amount of characters and lines
- ⇒ single- and double-sided construction
- ⇒ simple configuration possibility

GENERAL

Our numerical displays of the series NU are used solely for displaying figures. These can be measured values, times, quantities, numbers or many other things. Units of measurement which may possibly need to be displayed can be shown as a fixed text if required. Decimal points can be set by the customer, activated as floating point or blanked out. The final value of the displays is adjustable.

Because of the availability of all currently used interfaces and supply voltages, the displays can be integrated in almost any existing systems or measuring set-ups.

We deliver our numerical displays with any number of characters and lines. The values can be scaled internally and also other calculations can be made. The units of measurement will usually be placed as a fixed text on the front panel of the display.

The numerical displays are available in single- or double-sided construction. On request, customized displays are also possible. These displays are designed in direct agreement with the customer to meet his particular demands and requirements.

The displays can be used indoor as well as outdoor.

As our displays can be controlled via all standard interfaces, we are able to offer the appropriate solution for almost every application.

APPLICATION FIELDS

Our numerical displays of the series NU can be used for example in the following applications:

- scheduled / actual value display
- simple number display
- display of process data
- display of quantities
- display of weight
- speed value display
- temperature display
- measured value display
- message display of system data

TECHNIQUE

The numerical displays of the series NU exist in LED as well as in LCD technique. The character heights range from 25 mm up to 130 mm.

The displays can be equipped with single-coloured or double-coloured LED's.

The units of measurement are placed standardly as a fixed text on the front panel.

The supply connection is 230 VAC or 24 VDC, others on request.

LED technique

Indoor usage

No direct sunshine into the display

7-segment displays

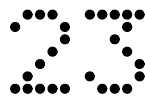


standard character height:	25, 60, 100, 130 mm
character colours:	single-coloured in red, yellow or green triple-coloured red, yellow and green
number of characters per line:	maximum 8
number of lines:	any

Outdoor usage

Readable in direct sunshine

5x7-matrix-displays



standard character height:	30, 50 mm
character colours:	single-coloured in red, yellow, green, blue or white
number of characters per line:	maximum 8
number of lines:	any
viewing angle:	110° horizontal, 55° vertical

10x14- or 10x16-matrix-displays



standard character height:	60, 75, 100, 120, 200, 240, 310, 365 mm
character colours:	single-coloured in red, yellow, green, blue or white
number of characters per line:	maximum 8
number of lines:	any
viewing angle:	110° horizontal, 55° vertical

Our displays for outdoor usage are perfectly readable even if the sun is shining directly into the display. They include an automatic brightness control.

LCD technique

The LCD technique is usable for indoor as well as outdoor purposes. The LCD displays are also readable in direct sunshine. The viewing angle of the LCD display is nearly endless wide.

The numbers are represented in the so-called 7-segment font.

7-segment font

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

The letters have an excellent legibility also from a great distance.



standard character height: 60, 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°

INTERFACES

- 0/4..20 mA
- 0..10 V

- RS 232 or RS 485
- Current Loop 20 mA

- Binary code
- BCD code
- Pulse input (potential-free or active)

- Profibus
- Ethernet (TCP/IP)

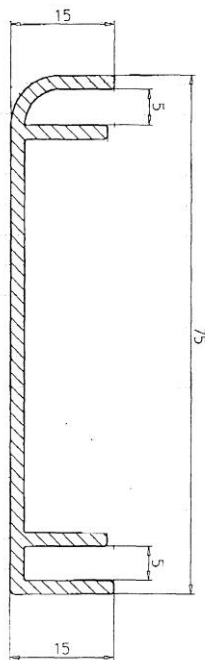
- Radio transmission with 433,70 MHz
- GSM

Adjustment to several other protocols is possible at any time.

THE HOUSINGS

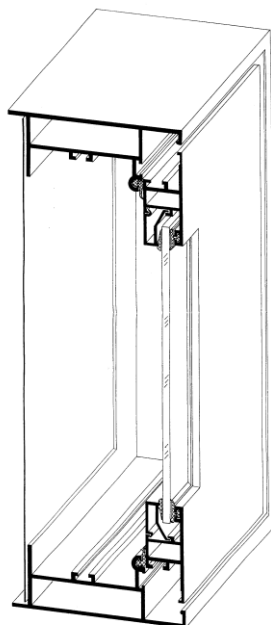
Housing of the Series AL075

construction	1-or 2-sided
application field	only indoor
depth:	75 mm
housing material:	aluminium profile
housing colour:	standard: powder-coated in RAL 5007; other RAL-colours also deliverable
open the housing:	at the left or right side

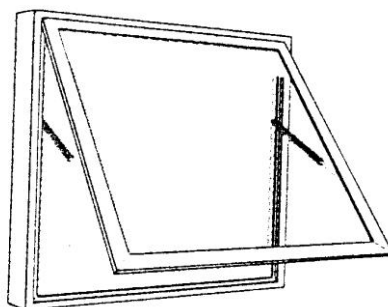


Housing of the Series D120

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.



Standard displays of the LED series NU (1/2)

designation	colour of LED	readable in sunshine	technique	character height [mm]	usage	number of lines	number of digits	dimension (WxH) in [mm]
NU 0104-60-0-R-S	red	no	7-segment	60	indoor	1	4	350 x 210
NU 0106-60-0-R-S	red	no	7-segment	60	indoor	1	6	430 x 210
NU 0204-60-0-R-S	red	no	7-segment	60	indoor	2	4	350 x 315
NU 0206-60-0-R-S	red	no	7-segment	60	indoor	2	6	430 x 315
NU 0304-60-0-R-S	red	no	7-segment	60	indoor	3	4	350 x 420
NU 0306-60-0-R-S	red	no	7-segment	60	indoor	3	6	430 x 420
NU 0102-100-0-R-S	red	no	7-segment	100	indoor	1	2	350 x 260
NU 0104-100-0-R-S	red	no	7-segment	100	indoor	1	4	500 x 260
NU 0106-100-0-R-S	red	no	7-segment	100	indoor	1	6	680 x 260
NU 0202-100-0-R-S	red	no	7-segment	100	indoor	2	2	350 x 440
NU 0204-100-0-R-S	red	no	7-segment	100	indoor	2	4	500 x 440
NU 0206-100-0-R-S	red	no	7-segment	100	indoor	2	6	680 x 440
NU 0302-100-0-R-S	red	no	7-segment	100	indoor	3	2	350 x 620
NU 0304-100-0-R-S	red	no	7-segment	100	indoor	3	4	500 x 620
NU 0306-100-0-R-S	red	no	7-segment	100	indoor	3	6	680 x 620

Standard displays of the LED series NU (2/2)

designation	colour of LED	readable in sunshine	technique	character height [mm]	usage	number of lines	number of digits	dimension (WxH) in [mm]
NU 0102-130-0-R-S	red	no	7-segment	130	indoor	1	2	360 x 315
NU 0104-130-0-R-S	red	no	7-segment	130	indoor	1	4	570 x 315
NU 0106-130-0-R-S	red	no	7-segment	130	indoor	1	6	780 x 315
NU 0202-130-0-R-S	red	no	7-segment	130	indoor	2	2	360 x475
NU 0204-130-0-R-S	red	no	7-segment	130	indoor	2	4	570 x475
NU 0206-130-0-R-S	red	no	7-segment	130	indoor	2	6	780 x475
NU 0302-130-0-R-S	red	no	7-segment	130	indoor	3	2	360 x680
NU 0304-130-0-R-S	red	no	7-segment	130	indoor	3	4	570 x680
NU 0306-130-0-R-S	red	no	7-segment	130	indoor	3	6	780 x680

All displays also deliverable in 2-sided construction.
Other character sizes and configurations on request.

Subject to technical alterations.

Standard displays of the LCD series NU (1/2)

designation	colour of LED	back-ground	technique	character height [mm]	technology	usage	number of lines	number of digits	dimension (WxH) in [mm]
NU 0106-60-0-Y-S	yellow	dark	7-segment	60	transflective	indoor	1	6	410 x 260
NU 0206-60-0-Y-S	yellow	dark	7-segment	60	transflective	indoor	2	6	410 x 340
NU 0306-60-0-Y-S	yellow	dark	7-segment	60	transflective	indoor	3	6	460 x 440
NU 0102-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	1	2	310 x 310
NU 0104-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	1	4	460 x 310
NU 0106-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	1	6	620 x 310
NU 0202-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	2	2	310 x 460
NU 0204-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	2	4	460 x 460
NU 0206-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	2	6	620 x 460
NU 0302-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	3	2	310 x 560
NU 0304-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	3	4	460 x 560
NU 0306-100-0-Y-S	yellow	dark	7-segment	100	transflective	indoor	3	6	620 x 560

Standard displays of the LCD series NU (2/2)

designation	colour of LED	back-ground	technique	character height [mm]	technology	usage	number of lines	number of digits	dimension (WxH) in [mm]
NU 0102-150-0-Y-S	yellow	dark	7-segment	150	transflective	indoor	1	2	410 x 340
NU 0104-150-0-Y-S	yellow	dark	7-segment	150	transflective	indoor	1	4	680 x 340
NU 0202-150-0-Y-S	yellow	dark	7-segment	150	transflective	indoor	2	2	410 x 520
NU 0204-150-0-Y-S	yellow	dark	7-segment	150	transflective	indoor	2	4	680 x 520
NU 0302-150-0-Y-S	yellow	dark	7-segment	150	transflective	indoor	3	2	410 x 700
NU 0304-150-0-Y-S	yellow	dark	7-segment	150	transflective	indoor	3	4	680 x 700

All displays also deliverable in 2-sided construction.
Other character sizes and configurations on request.

Subject to technical alterations.