



±1888

Product Guide

DA Series
713.U.001.04

Digital Remote Displays, parallel, serial

48x24
48x48
72x24
72x48
96x24
96x48
144x48
144x72

- ✓ for Parallel BCD Input
- ✓ for Serial Input
RS 232 C / V.24, 20 mA / TTY, RS 422 and RS 485
- ✓ 48x24, 48x48, 72x24, 72x48, 96x24, 96x48, 144x48
or 144x72 mm Bezel
- ✓ 7.62 / 10 / 14 / 20 or 25 mm Digit Height
- ✓ Red or Green LEDs
- ✓ 2, 3, 3½, 4, 4½, 5, 6 Digits
- ✓ Auxiliary Supply 5/15/24 V DC or 115/230 V AC, 50 Hz



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General Data

Digital Remote Displays, parallel, serial

Application

for standard applications in switchboard-, control equipment-, process control-, and machine tool industry.

for mounting in	switchboards, machine tools or mosaic grid panels (optional)
display of data format	BCD or serial data digital BCD inputs parallel or multiplex, TTL 5 V or SPS 24 V, active high or active low digital inputs (serial) RS 232 C / V.24, 20 mA / TTY, RS 422, RS 485

Mechanical Data

case details	rectangular format
material of case	glass-fibre reinforced thermoplastics, black
bezel	black, mat or optionally gray varnished (similar to RAL 7037) or siliceous gray varnished (similar to RAL 7032)
terminals	screw terminal barrier strip
enclosure code	IP 50 front of case IP 20 rear of case
panel fixing	screw clamps
mask lettering	caption, custom logo or extra lettering to special order
operating elements	on rear side of case
climatic suitability	
operating temperature range	0°C ... +23°C ... +50°C
storage temperature range	-20°C ... +23°C ... +70°C
relative humidity	≤75% annual average, non-condensing
dimensions (in mm)	DAP 08/10 ...-4 ...-7
bezel	48 x 24 48 x 48 72 x 24
panel cutout	45 ^{+0.6} x 22.2 ^{+0.3} 45 ^{+0.6} x 45 ^{+0.6} 68 ^{+0.7} x 22.2 ^{+0.3}
panel thickness	≤5
mounting depth	120 incl. terminal barrier strip
bezel height	5.25
dimensions (in mm)	DAP/DAS 14 ...-4 (2/3/4 digits)
bezel	72 x 24 72 x 48
panel cutout	68 ^{+0.7} x 22.2 ^{+0.6} 68 ^{+0.7} x 45 ^{+0.6}
panel thickness	≤5
mounting depth	120 incl. terminal barrier strip
bezel height	5.25
dimensions (in mm)	DAP/DAS 14 ...-4 (5/6 digits)
bezel	96 x 24 96 x 48
panel cutout	92 ^{+0.8} x 22.2 ^{+0.6} 92 ^{+0.8} x 45 ^{+0.6}
panel thickness	≤5
mounting depth	120 incl. terminal barrier strip
bezel height	7.5
dimensions (in mm)	DAS 20/25 ...-4
bezel	144 x 48 144 x 72
panel cutout	138 ^{+1.0} x 45 ^{+0.6} 138 ^{+1.0} x 68 ^{+0.7}
panel thickness	≤45
mounting depth	120 incl. terminal barrier strip
bezel height	8.5

Options

lettering, custom logo please specify
mosaic grid panel mounting, extra housing, non-standard auxiliary voltage, non-standard inputs, software, connection cable with socket connector on request, enclosure code IP 54 up to IP 65 front of case using rubber cover attachment 96x48.

<i>additional options</i>	on request
<i>additional data</i>	on request

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BCD

Short Form Data

Digital Remote Displays with BCD Input

DAP 08

DAP 10

-	48 x 24 mm
-4	48 x 48 mm
-7	72 x 24 mm

Digits

30	3 digits
31	3½ digits
40	4 digits
41	4½ digits*
50	5 digits*

* DAP 08 only

Inputs

A	multiplex active high 24 V
B	multiplex active low 24 V
C	parallel active high 24 V
D	parallel active low 24 V
E	multiplex active high 5 V
F	multiplex active low 5 V
G	parallel active high 5 V
H	parallel active low 5 V

Auxiliary Voltage

1	24 V DC
3	15 V DC
4	5 V DC

Display Colour

R	red
G	green

Electrical Data

inputs	TTL 5 V or SPS 24 V, (input resistance 10 kΩ)
pulse width	2 ms min.
functional inputs	ST display test DT display blanking DP decimal point LE latch enabling
auxiliary voltage	24 DC (20 ... 30 V) or 15 DC (12.5 ... 17.5 V) or 5 DC (4.75 ... 5.25 V) electrically not insulated
power consumption	2.5 VA max.

Display

display	7-segment LED	
digit height	DAP 08	7.62 mm
	DAP 10	10 mm
display colour	red or green	

Connection

refer to last page

	1	2	3	4	5	6	7
ordering example	DAP	08	-	30	D	1	G -

mounting in mosaic grid panel (all models)
please specify type / manufacturer of mosaic grid when ordering

ordering information

1	2	3	4	5	6	7	
type	digit height	-	# digits	input	power supply	colour	case

Short Form Data

Digital Remote Displays with BCD Input

DAP 14

- 72 x 24 mm
- 4 72 x 48 mm
- 96 x 24 mm
- 4 96 x 48 mm

Digits	
20	2 digits (72x24/48)
30	3 digits -"-
40	4 digits -"-
50	5 digits (96x24/48)
60	6 digits -"-

Input	
A	multiplex, 24 V active high
Auxiliary Voltage	
1	24 V DC
Display Colour	
R	red
G	green

Electrical Data

inputs	24 V (35 V max.) active high, multiplex low: < 7 V, high: >10 V
input resistance	15 kΩ
pulse width	2 ms min.
functional inputs	ST display test DT display blanking DP decimal point LE latch enable
auxiliary voltage	24 V DC (20 ... 30 V) electrically not insulated
power consumption	2.5 VA max.

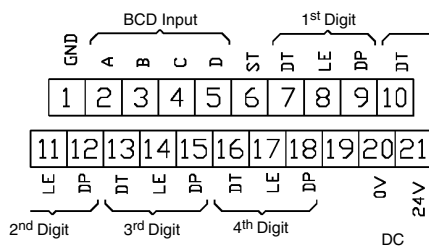
Display

display	7-segment LED
digit height	14 mm
display colour	red or green

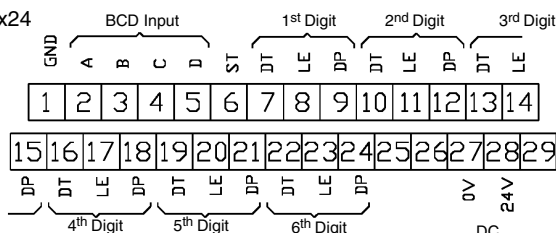
Connection

plug-in terminal barrier strip, double-row

72x24



96x24



NOTE: Close mounting on top of each other will generally not be possible due to both terminal barrier strips and cables.

	1	2	3	4	5	6	7
ordering example	DAP	14	-	50	A	1	R -4

Short Form Data

Digital Remote Displays with Serial Input

DAS 14

- 72 x 24 mm
- 4 72 x 48 mm
- 96 x 24 mm
- 4 96 x 48 mm

Input	
20	2 digits (72x24/48)
30	3 digits -"-
40	4 digits -"-
50	5 digits (96x24/48)
60	6 digits -"-

Input	
A	RS 232 C / V.24 and 20 mA/TTY
B	RS 422
D	RS 485
Auxiliary Voltage	
1	24 V DC
Display Colour	
R	red
G	green

Electrical Data

inputs	RS 232 C / V.24 and 20 mA / TTY or RS 422 or RS 485
devices addresses	0 ... 9 or 00 ... 99
data transfer	1200 / 2400 / 4800 / 9600 / 19200 baud with / without parity bit, even / odd parity, 7 or 8 data bits with / without STX/ETX programmable
software functions	display test, show/hide pre-zeros, flashing characters/display, write direction left→right / right→left suppression of up to 99 characters, timeout function
auxiliary voltage	24 V DC (20 ... 30 V) electrically not insulated
power consumption	2.5 VA max.

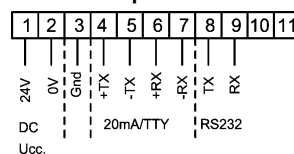
Display

display	7-segment LED
digit height	14 mm
display colour	red or green

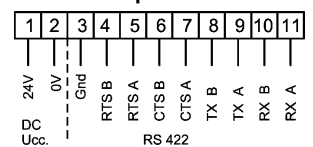
Connection

plug-in terminal barrier strip

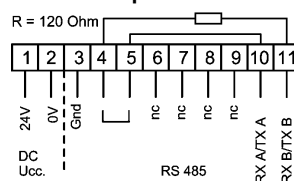
DAS 14 A Input



DAS 14 B Input



DAS 14 D Input



	1	2	3	4	5	6	7
ordering example	DAS	14	-	40	B	1	R -

Short Form Data

Digital Remote Displays with Serial Input

DAS 20
DAS 25

- 144 x 48 mm
-4 144 x 72 mm

Digits

30 3 digits
40 4 digits
50 5 digits *
* DAS 20 only

Input

A RS 232 C / V.24 and 20 mA / TTY and RS 485

Auxiliary Voltage

1 24 V DC electrically insulated
2 115/230 V AC, 50 Hz electr. insulated

Display Colour

R red
G green

Electrical Data

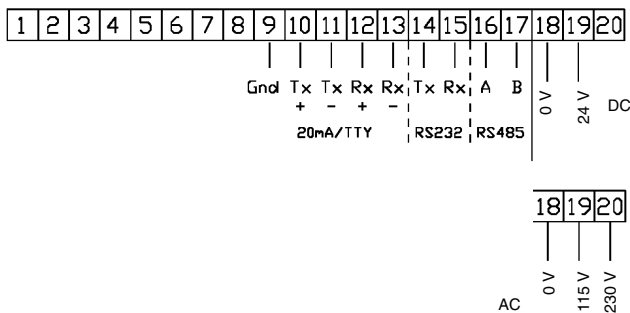
inputs	RS 232 C / V.24 and 20 mA / TTY and RS 485
device addresses	01 ... 98
data transfer	1200 / 2400 / 4800 / 9600 baud with / without parity bit, even / odd parity, 7 or 8 data bits with / without STX/ETX programmable
software functions	display test, show/hide pre-zeros, flashing characters/display, write direction left→right / right→left suppression of up to 99 characters
auxiliary voltage	24 V DC (20 ... 30 V), electrically insulated or 115/230 V AC, 50 Hz, electrically insulated
power consumption	5 VA max.

Display

display	7-segment LED
digit height	DAS 20 20 mm DAS 25 25 mm
display colour	red or green

Connection

plug-in terminal barrier strip



	1	2	3	4	5	6	7
ordering example	DAS	20	-	40	A	1	R

WEIGEL – MESSGERÄTE GmbH

P.O.B. 720154 • D-90241 Nürnberg • Telephone: 0911/42347-0
Erlenstraße 14 • D-90441 Nürnberg • Fax: 0911/42347-39
Internet: <http://www.weigel-messgeraete.de>
e-mail: vertrieb@weigel-messgeraete.de

Short Form Data

Digital Remote Displays with BCD-Input (continued)

DAP 08
DAP 10

Connection

Sub-D Connector Pin Assignment, 26 poles
Input multiplex

1	A	} BCD Input
2	B	
3	C	
4	D	
5	LE	} 1st Digit
6	DP	
7	LE	} 2nd Digit
8	DP	
9	LE	} 3rd Digit
10	DP	
11	LE	} 4th Digit
12	DP	
13	LE	} 5th Digit
14	DP	
15	n.c.	
16	n.c.	
17	n.c.	
18	n.c.	
19	n.c.	
20	n.c.	
21	+ V Ucc	
22	0 V Ucc/BCD	
23	ST	
24	DT	
25	n.c.	
26	n.c.	

Input parallel

1	A	} 1st Digit
2	B	
3	C	
4	D	
5	A	} 2nd Digit
6	B	
7	C	} 3rd Digit
8	D	
9	DP	} 4th Digit
10	A	
11	B	} 5th Digit*
12	C	
13	D	
14	DP	
15	A	
16	B	
17	C	
18	D	
19	DP	
20	LE	latch
21	+ V Ucc	
22	0 V Ucc/BCD	
23	ST	
24	DT	
25	n.c.	
26	n.c.	

*DAP 08 only

Accessories

- connector plug with cover
- cable 1 m with plug
- cable 2 m with plug
- cable 3 m with plug

– specifications subject to change without notice; date of issue 04/07 –

