

## LPD450F 4-20mA

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



3½- and 4½-character digital displays in two-wire design for current-loop signals.

The LPD350 is a compact, cost-effective, 3½-character LCD digital display designed specifically for current loop signals.

With its intrinsically safe digital display, the LDP450F is suitable for installation in the field. It is equipped with a 4½-character LCD display which can be read even under poor lighting conditions.

The loop-powered (two-wire) design allows for any supply of the digital display via the 4 – 20 mA current loop.

No additional wiring is needed for a power supply. The current loop will be interrupted and the display will be looped directly into the circuit.

### General ordering data

Type	LPD450F 4-20mA
Order No.	<a href="#">7940010236</a>
Version	Signal converter/insulator, 4...20 mA
GTIN (EAN)	4032248565658
Qty.	1 pc(s).

## LPD450F 4-20mA

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

## Technical data

## Dimensions and weights

Length	65 mm	Length (inches)	2.559 inch
Width	140 mm	Width (inches)	5.512 inch
Height	80 mm	Height (inches)	3.15 inch
Weight	472 g	Net weight	472 g

## Temperatures

Humidity	10...90 %, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	0 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-25 °C	Operating temperature	0 °C...60 °C
Storage temperature	-25 °C...70 °C		

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

## Display

Decimal point	18888, 1.8888, 18.888, 188.88, 1888.8	Display range	±19.999 (0.00...100.00 factory setting)
Display value	Percentage or real value display	Type	4.5-character, black LCD with clear background, 20 mm

## Functions

Accuracy	± 0.05 % from signal range ± 1 digital step	Step response time	Programmable in 99 steps from 1...30 sec.
Temperature coefficient	Offset ± 0.01 % / °C Adjustment range ± 0.1 digital steps or 0.01 % / °C		

## General data

Accuracy	± 0.05 % from signal range ± 1 digital step	Change of display	2 x per sec.
Data backup	≥ 100 years	Humidity	10...90 %, no condensation
Input/Output	Current input	Repeat accuracy	± 0.01 % of signal range
Sampling rate	16 x pro s	Step response time	Programmable in 99 steps from 1...30 sec.
Temperature coefficient	Offset ± 0.01 % / °C Adjustment range ± 0.1 digital steps or 0.01 % / °C	Transmit function	√, x <sup>3/2</sup> , x <sup>5/2</sup> or programmable (2-21 steps)
Type of connection	Screw connection	Voltage drop	< 4.3 V
Voltage supply	Loop powered, via 4...20 mA input	Weight	472 g

## Input

Input current	4...20 mA
---------------	-----------

## Insulation coordination

EMC standards	DIN EN 61326
---------------	--------------

Creation date May 28, 2019 12:18:07 AM CEST

## LPD450F 4-20mA

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

## Technical data

## Output

Transmit function	$\sqrt{\quad}$ , $x^{3/2}$ , $x^{5/2}$ or programmable (2-21 steps)
-------------------	---

## Settings

Accuracy	$\pm 0.05\%$ from signal range $\pm 1$ digital step	Repeat accuracy	$\pm 0.01\%$ of signal range
----------	---	-----------------	------------------------------

## Connection data

Type of connection	Screw connection	Clamping range, rated connection	1.5 mm <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>

## Classifications

ETIM 3.0	EC001774	ETIM 4.0	EC001774
ETIM 5.0	EC001774	ETIM 6.0	EC000677
UNSPSC	30-21-18-01	eClass 6.2	27-21-09-90
eClass 7.1	27-21-09-90	eClass 8.1	27-21-09-90
eClass 9.0	27-14-31-10	eClass 9.1	27-21-03-01

## Approvals

Approvals



ROHS	Conform
------	---------

## Downloads

Brochure/Catalogue	<a href="#">CAT 4.1 ELECTR 16/17 EN</a>
User Documentation	<a href="#">Manual</a>

**Data sheet**

**LPD450F 4-20mA**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

**Drawings**

**Electric symbol**

