

# MCR-FL-D-U-I-2SP- 24 - Digital display



2864215

<https://www.phoenixcontact.com/us/products/2864215>

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MCR digital display, for measurement and display of standard signals, auxiliary power supply 24 V DC



## Your advantages

- 96 x 48 mm display
- Electrical isolation
- 5-digit display
- Totalizer
- 2 relay outputs with freely adjustable limit values
- For standard analog signals
- Programmable

## Commercial data

Item number	2864215
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1141
GTIN	4017918820688
Weight per piece (including packing)	321.4 g
Weight per piece (excluding packing)	301.4 g
Customs tariff number	90303330
Country of origin	DE

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## Technical data

### Product properties

Product type	Digital displays
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### Electrical properties

Maximum power dissipation for nominal condition	2 W
Test voltage, input/output/supply	500 V <sub>rms</sub> / 2.3 kV <sub>rms</sub> , 50/60 Hz, 1 min.

### Supply

Supply voltage range	10 V DC ... 30 V DC
Power consumption	max. 2 W

### Input data

#### Signal

Voltage input signal	0 V ... 10 V
	-10 V ... 10 V
Max. voltage input signal	± 30 V
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Max. current input signal	50 mA
Switching level "1" signal	4 V DC ... 30 V DC
Switching level "0" signal	0 V DC ... 2 V DC
Input resistance of voltage input	> 1 MΩ
Input resistance current input	< 50 Ω
Resolution inputs (voltage)	1 mV
Resolution inputs (current)	2 μA
System hum suppression	Digital filtering 50/60 Hz
Input latch signal	Display stop
Input reset impulse	> 5 ms to reset the totalizer / the relay outputs
Measuring rate	Approximately 2 measurements/second

### Output data

#### Switching: Relay

Contact switching type	2 changeover contacts
Contact material	AgCdO
Maximum switching voltage	300 V DC
	250 V AC
Min. switching current	30 mA DC
Max. switching current	3 A
Interrupting rating (ohmic load) max.	50 W
	2000 VA

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## Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M2
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 16
Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14

## Dimensions

Width	96 mm
Height	48 mm
Depth	93.1 mm

## Material specifications

Housing material	Macrolon 2405
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 (Front)
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## Approvals

### CE

Certificate	CE-compliant
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### UL, USA/Canada

Identification	UL 508 Recognized
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# MCR-FL-D-U-I-2SP- 24 - Digital display

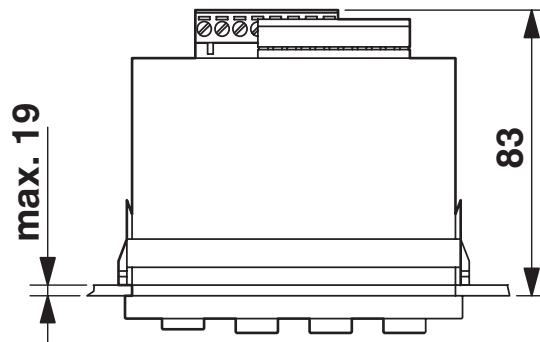
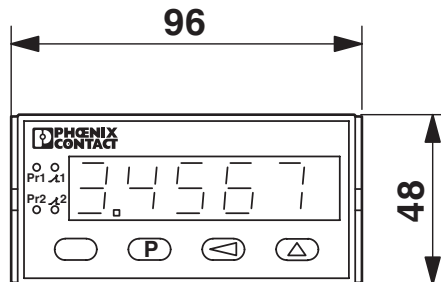
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## Drawings

Dimensional drawing



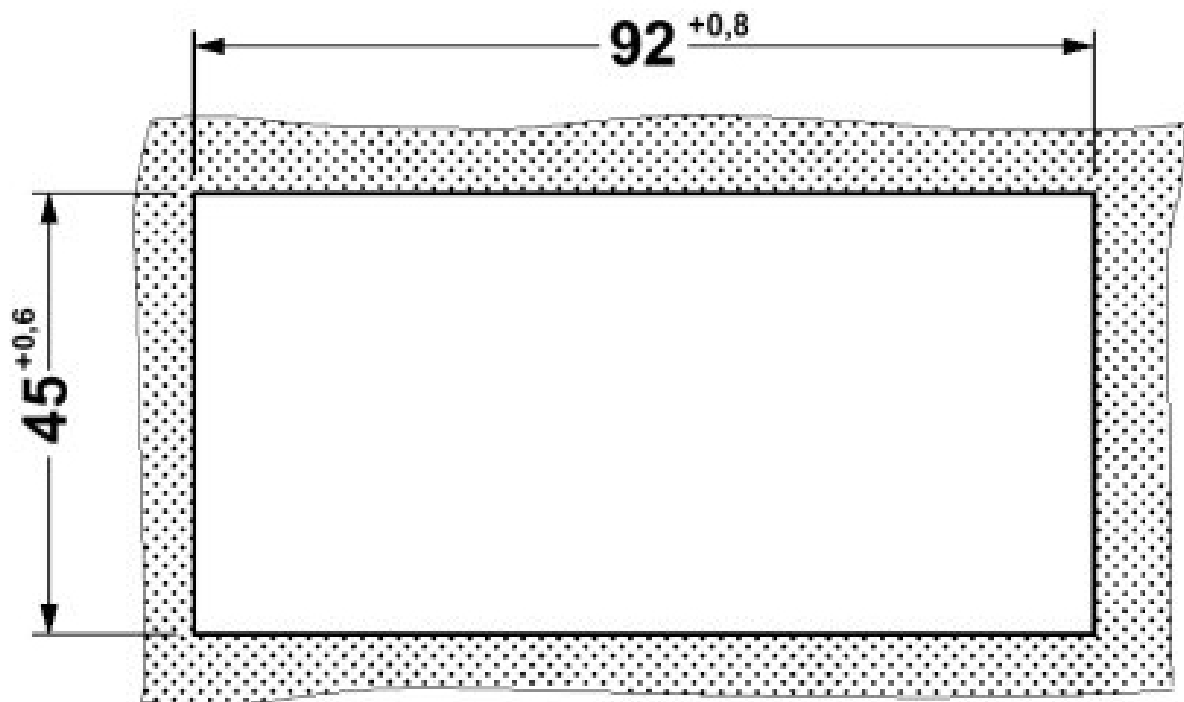
# MCR-FL-D-U-I-2SP- 24 - Digital display

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Dimensional drawing



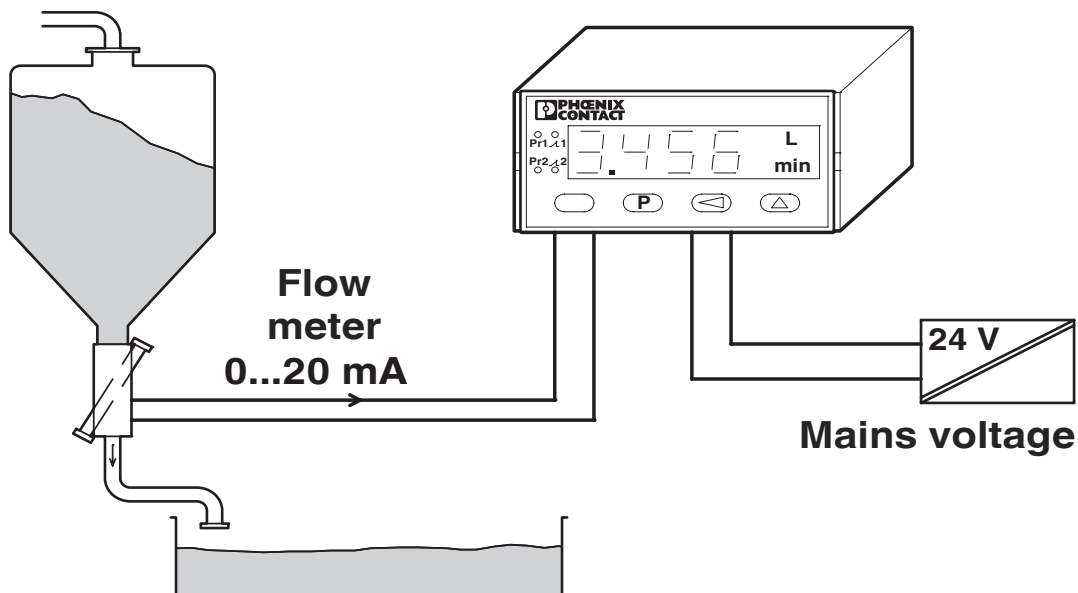
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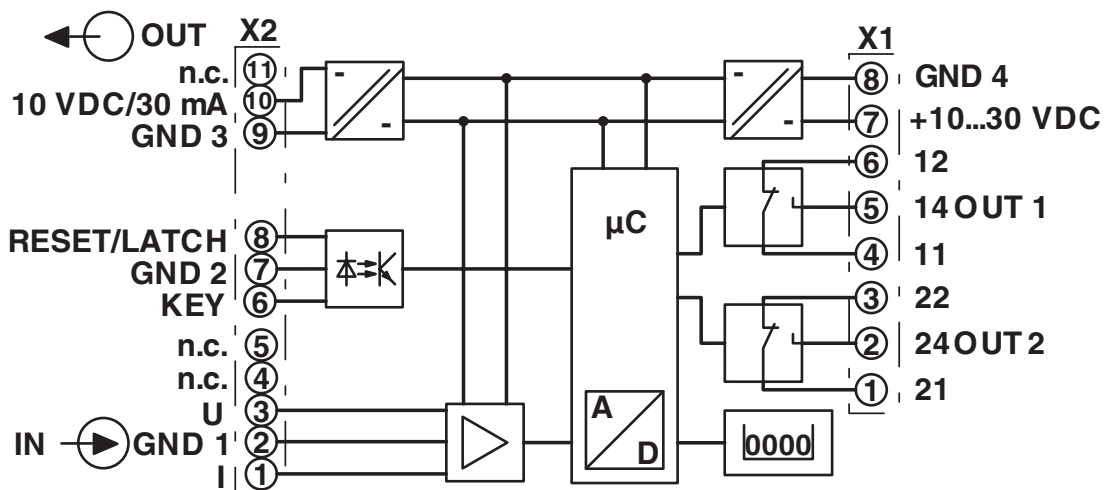
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Application drawing



Flow measurement and display

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2864215>



**cUL Recognized**  
Approval ID: FILE E 197577



**UL Recognized**  
Approval ID: FILE E 197577



**EAC**  
Approval ID: RU C-DE.A\*30.B.01082

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)