

# F113, F116 and F131

## Universal converters with display

### Applications

The universal converters are used as flow indicators and for batching control of miscellaneous liquids: water, industrial liquids, fuel etc.. These converters are designed for industrial environments. Four versions are available: flow totaliser F113, differential flow measurement F116, and batching control F131 (non explosive environment) and F131 Exi (explosive environment).



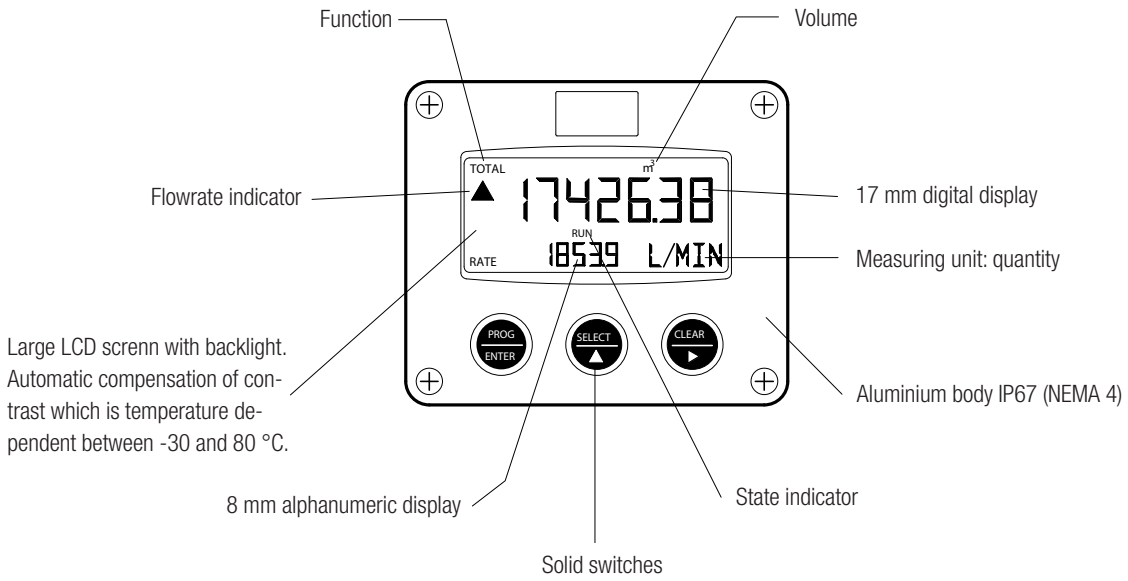
### Features

- Large LCD screen with LED back-light
- Easy electrical connection
- Relay and analogue outputs
- Simplified programming
- Data stored in EEPROM
- Aluminium body painted IP67 (NEMA4)

### Your benefits

- User friendly
- Flexibility for different needs
- Compact design
- Many possibilities for installation
- Convenient for all our flowmeter range
- Solid, resistant and long term robustness

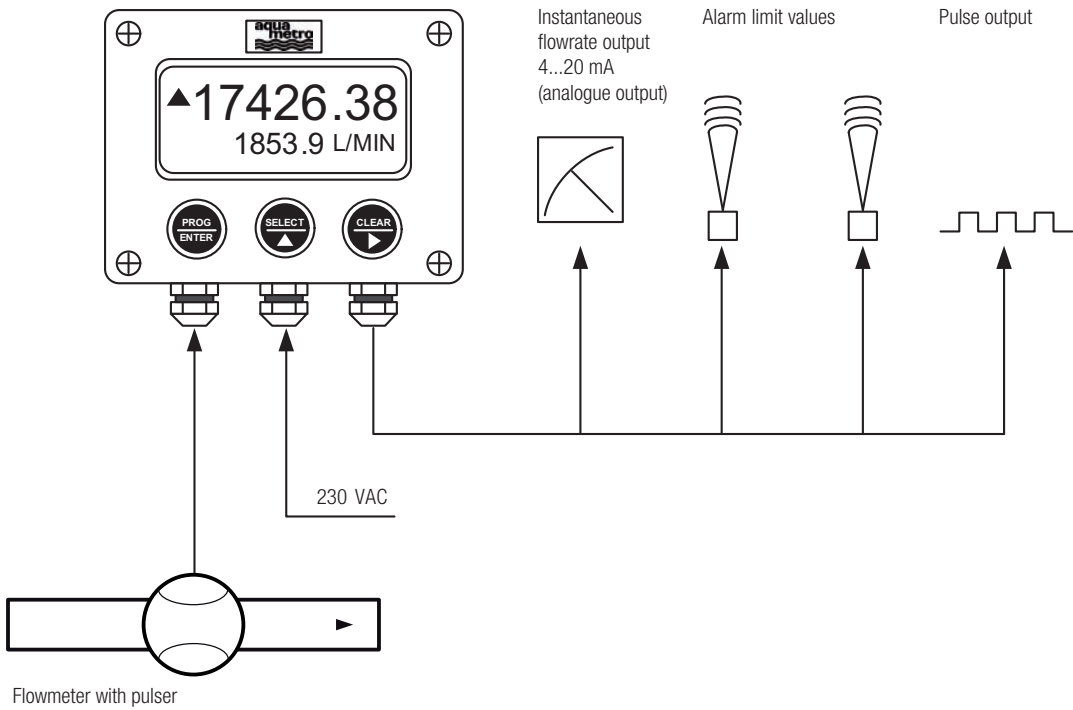
# Display



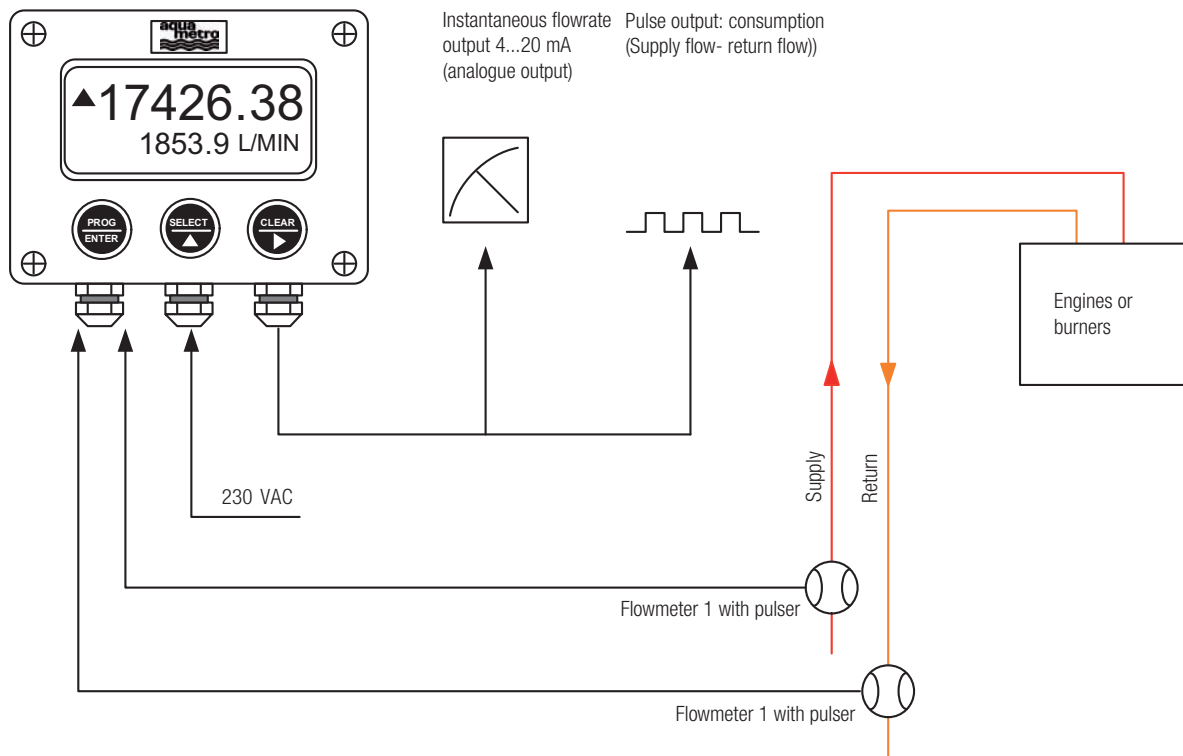
# Uses

A device adapted according to needs.

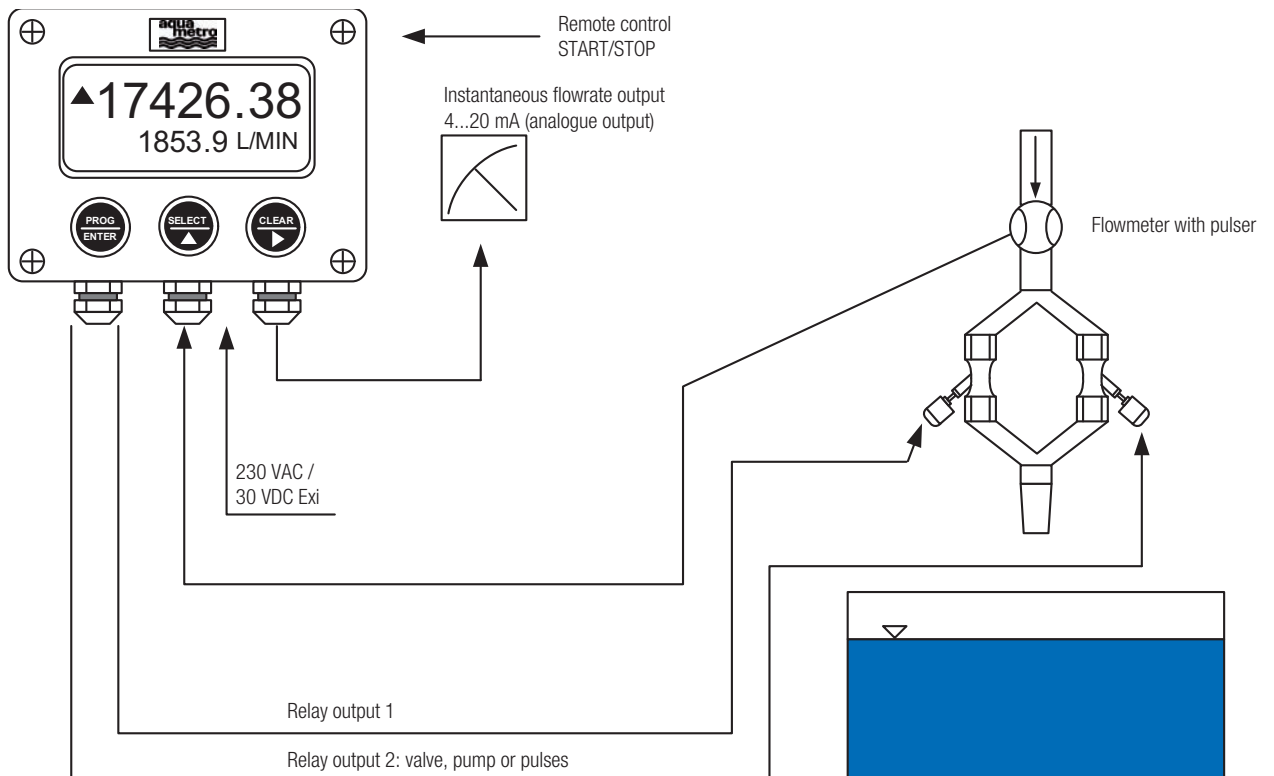
## Flow totalizer F113



### Differential flow calculator F116



### Batching controller F131/F131Exi



## Common functions

<b>Version</b>				
Batching control in explosive environments				F131Exi
Batching control in non explosive environments			F131	
Differential flow calculator		F116		
Flow Totalizer	F113			
Order No.	92439	92440	92441	92442
<b>Totalizer</b>				
• Total without reset	●	●	●	●
• Subtotal with reset	●	●	●	●
<b>Flowrate indicator</b>				
• Flow	●	—	●	●
• Supply flow	—	●	—	—
• Return flow	—	●	—	—
• Flow difference (consumption)	—	●	—	—
<b>Outputs</b>				
• Relay pulses; 2 relays, max . 240 VAC / 0,5 A, max. 5 Hz	●	—	●	—
• Active transistor pulses; 24 VDC / max. 20 mA, max. 60 Hz	●	●	—	—
• Passive transistor pulses; max. 50 VDC / 300 mA, max. 60 Hz	—	—	—	●
• Differential flow (active transistor)	—	●	—	—
• Limit switch max. / min. flowrates	●	—	—	—
• Active analogue signal; 4...20 mA, 24 VDC, max. load 1000 Ohm	●	●	—	—
• Passive analogue signal; 4...20 mA, max. 30 VDC	—	—	●	●
<b>Measuring units</b>				
• Volume ml, l, m <sup>3</sup> , USG	●	●	●	●
• Time per : second, minute, hour, day	●	●	●	●
<b>Installation</b>				
• Wall mounted	●	●	●	●
• Front panel	●	●	●	●
<b>Power supply</b>				
• 230/115 VAC 50/60 Hz	●	●	●	—
• 10...28 V AC/DC Exi	—	—	—	●
• Backlight display	●	●	●	—
• Connector block for max.1.5 mm <sup>2</sup> wires	●	●	●	●
<b>Body</b>				
• Aluminium IP 67 / NEMA 4	●	●	●	●
<b>Input</b>				
• Pulsar (Reed, NAMUR, open collector transistor, relay)	●	●	●	●
<b>Ambient temperature</b>				
• -30... 80 °C	●	●	●	—
• -30... 70 °C	—	—	—	●
<b>Security</b>				
• Saving data in EEPROM	●	●	●	●
• EMC acc. to EN 50081 and EN 50082	●	●	●	●
• Certified for Ex EEx ia IIB T4	—	—	—	●

## Installation possibilities

Front panel mounting



Wall or mounting on DIN rail (option)



Compact mounting on a DOMINO flowmeter

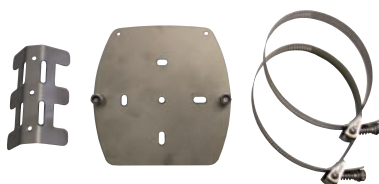


## Mounting accessories (option)

Mounting kit for wall or DIN rail (MS-WDS)



Pipe mounting kit (MS-RPW)



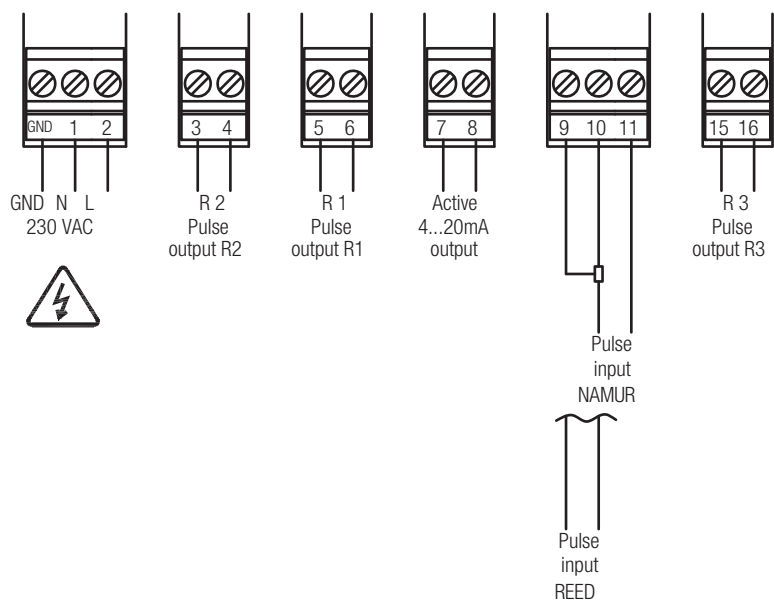
Compact mounting on a flowmeter (KS-KP)



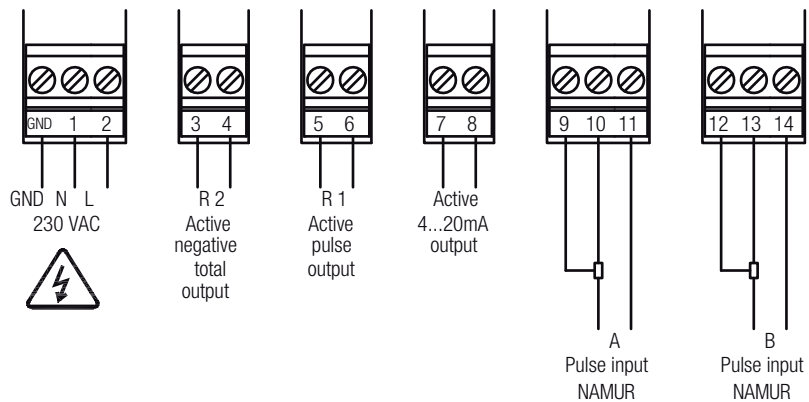
Accessories	Type	Order No.
Mounting kit for wall or DIN 35 mm rail	MS-WDS	80082
Compact mounting on a DOMINO or CONTOIL® flowmeter	MS-KP	80083
Pipe Mounting kit (stainless steel) DN 50 - 176 mm	MS-RPW	80325

# Electrical connections

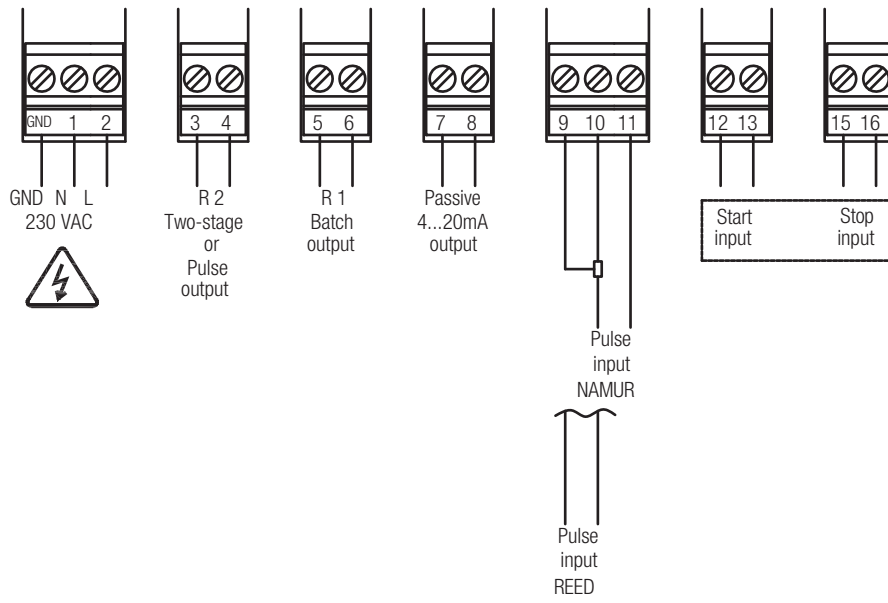
## F113



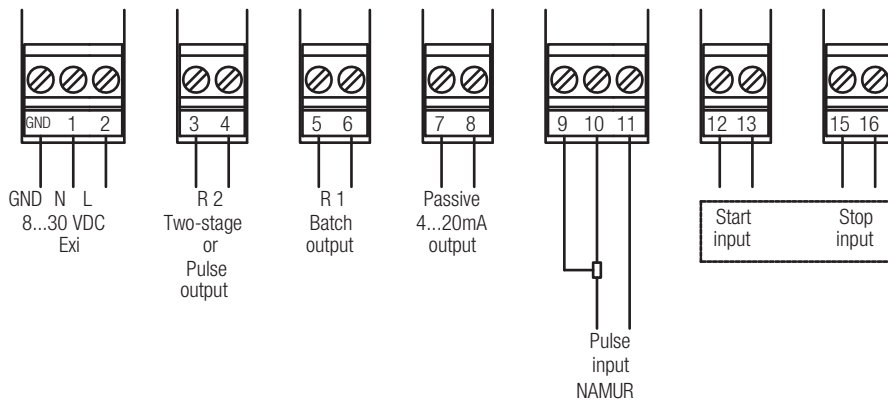
## F116



## F131

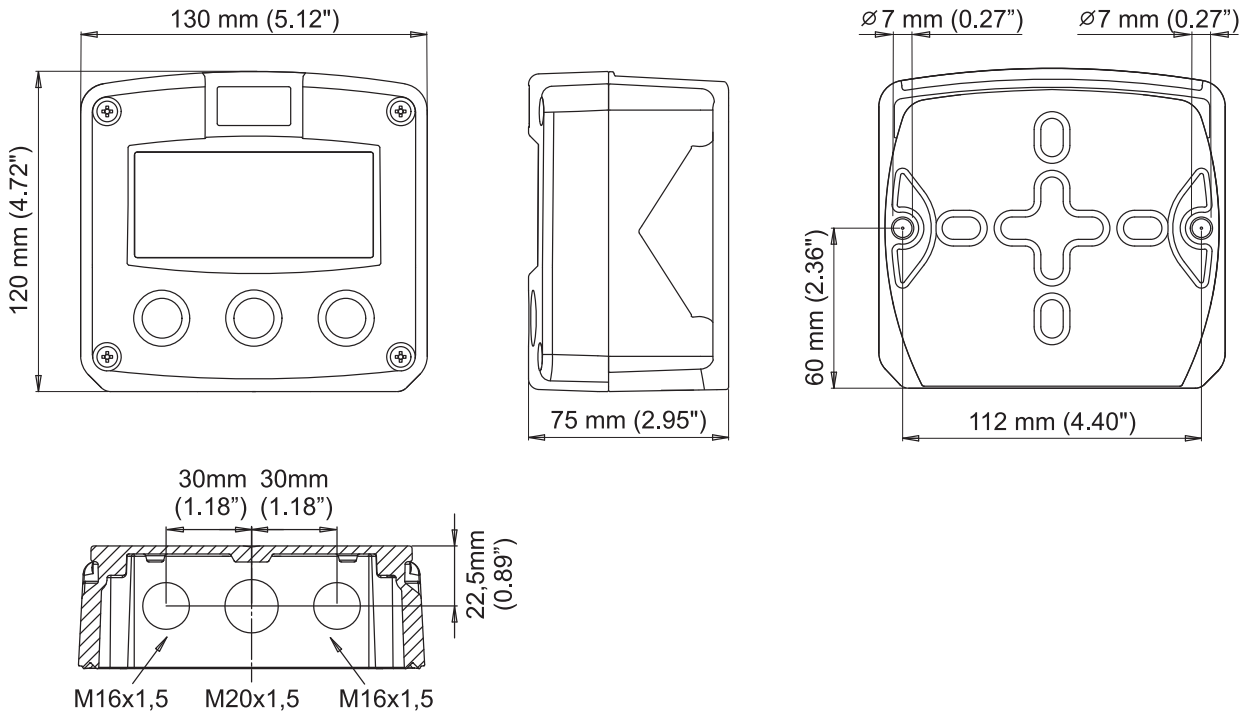


## F131 Exi

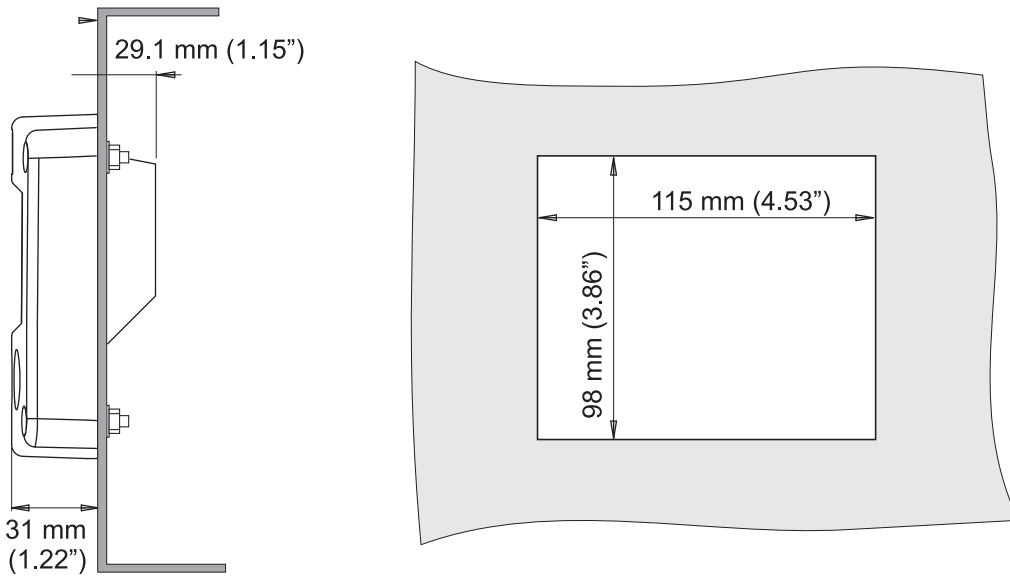


# Overall dimensions

## Wall mounting



## Front panel mounting



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