

# RMC621

## Flow and energy manager

### Universal flow and energy computer for gases, liquids and steam



More information and current pricing:

[www.casc.endress.com/RMC621](http://www.casc.endress.com/RMC621)

#### Benefits:

- Suitable for applications with gas, liquid, steam and water
- Simultaneous calculation of up to 3 measuring applications, even if different fluids are used
- Very precise process calculations (density, enthalpy, compressibility) on the basis of equations and/or storable tables with material data
- Calculation standards: IAPWS-IF 97, SGERG88, AGA8, real gas equations (SRK, RK), ISO 5167, tables
- Can be used with all common flow measuring systems (vortex, turbine, MID, orifice plate, differential pressure, etc.)
- Compensation input for density signal
- Logbook function for error messages and parameter changes with date and time

#### Specs at a glance

- **Input** 2...8x PFM 2...8x I 2...8x Impulse (aktiv) 2...6x RTD 2...8x Impulse (passiv)
- **Output** 3...9x transmitter power supply
- **Display** LC-Dot-Matrix 160 x 80 Punkte
- **Calculations** mass/heat quantity heat quantity difference for gases: standard volume, heating value, mass

**Field of application:** The flow and energy manager RMC621 calculates standard volume as well as mass and energy flows of natural and technical gases, fluids and steam from flow, pressure, temperature and density. Depending on the medium calculation of the energy values occurs according to international standards (IAPWSIF97, SGERG88), real gas equations (SRK) or specific tables. For differential pressure

measurements coefficients for flow compensation are calculated over the complete operating range of the flow sensor.

## Features and specifications

### Energy & Application Manager

**Measuring principle**

Energy manager

**Measuring principle**

Flow and energy manager

**Function**

Gas, liquids, steam and water balancing for industrial energy management

**Calculations**

mass/heat quantity

heat quantity difference

for gases: standard volume, heating value, mass

**Number of applications**

3

**Data storage**

no

**Calculation standards**

IAPWS IF97

AGA8 / SGERG88

Nx/9

API 2540

customer specific tables

ISO 5167

**Energy & Application Manager Communication**

1 x RS232  
2 x RS485  
PROFIBUS DP  
M-Bus  
Modbus RTU

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**Power supply**

Not defined

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**Loop power supply**

90...250V AC 50/60 Hz  
20...28V AC 50/60 Hz  
20...36V DC

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**Protection class**

IP20

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**Input**

2...8x PFM  
2...8x I  
2...8x Impulse (aktiv)  
2...6x RTD  
2...8x Impulse (passiv)

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**Output**

3...9x transmitter power supply

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**Dimensions (WxHxD)**

135 x 108 x 114 mm (5.32" x 4.25" x 4.49")

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**Operation**

Soft keys RS232 and operation software ReadWin 2000

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**Display**

LC-Dot-Matrix 160 x 80 Punkte

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**Software functions**

International calculation standards for gas, liquids, steam and water

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Energy & Application Manager

**Certificates**

CSA GP  
ATEX Ex ia  
FM USA IS  
FM USA NI  
CSA IS  
CSA NI  
NEPSI Ex ia  
GOST Ex i  
IECEX  
EAC

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More information [www.casc.endress.com/RMC621](http://www.casc.endress.com/RMC621)