RMC621
Flow and energy manager

Universal flow and energy computer for gases, liquids and steam

More information and current pricing:
www.at.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 bilancing 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

Energy & Application Manager

Calculation standards

IAPWS IF97

AGA8 / SGERG88

Nx/9

API 2540

customer spezific tables

ISO 5167

Communication

1 x RS232

2 x RS485

PROFIBUS DP

M-Bus

Modbus RTU

Power supply

Not defined

Loop power supply

90...250V AC 50/60 Hz

20...28V AC 50/60 Hz

20...36V DC

Protection class

IP20

Energy & Application Manager

Input

2...8x PFM

2...8x I

2...8x Impulse (aktiv)

2...6x RTD

2...8x Impulse (passiv)

Output

3...9x transmitter power supply

Dimensions (WxHxD)

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

Operation

Soft keys RS232 and operation software ReadWin 2000

Display

LC-Dot-Matrix 160 x 80 Punkte

Software functions

International calculation standards for gas, liquids, steam and water

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

More information **www.at.endress.com/RMC621**

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