AUTOMATION

INDICATORS,
ALARM UNITS

GEFRAN
Thanks to forty years of experience, Gefran is the world leader in the design and production of solutions for measuring, controlling, and driving industrial production processes. We have branches in 14 countries and a network of over 80 worldwide distributors.

QUALITY AND TECHNOLOGY
Gefran indicators are designed to directly acquire multiple physical variables such as temperature, pressure, displacement, force/weight, humidity, and many others via normalised signals.

ONE STOP SHOP
Gefran offers complete display solutions for industry, providing its own sensors and ensuring maximum component compatibility and integration.

The numerous models in the catalogue offer different acquisition speeds, read resolutions, and specific functions assignable to auxiliary inputs and to alarm outputs.

SERVICES
A team of Gefran experts works with the customer to select the ideal product for its application and to help install and configure devices (customercare@gefran.com).

Gefran offers a wide range of courses at different levels for the technical-commercial study of the Gefran product range as well as specific courses on demand.
SOFTWARE
GF_eXpress

Configuration kit for Gefran instruments by means of PC (Windows environment). Lets you read or write all of the parameters of a single instrument via serial connection.

- A single software for all models
- Easy configuration
- Copy/paste, save recipe, trend functions
- Rapid configuration of instruments
- Saving and management of parameter recipes
- On-line trend
- Recovery of factory settings
- Custom linearization
- On-line user manual
- Easy programming with custom messages
- Easy graphics programming with setpoint programmers
Gefran indicators and alarm units feature flexibility, simplicity, and compactness. Available in versions measuring 72x36, 48x48, and 48x96, they indicate variables such as temperature, displacement, and force.

Devices dedicated to the "Limit Switch" function, in two sizes, 48x49mm and 48x96mm, Factory Mutual (FM) certified and ready to use.

Gefran’s 2400 series of indicators provide speed and precision, ensuring the measurement and setpoints of pressures (direct and differential), displacements, forces, temperatures, and process variables read by amplified and not amplified sensors.

**Calculation capacity**
- Ability to compare input variables, engineer measurements, display the result.
- Use of results of math functions such as value of process/alarm limit/retransmission output.

**Double channel**
- Two main universal analogue inputs for two simultaneous acquisitions with a single instrument.
- Direct Power Supply and acquisition of up to 6 load cells.

**Easy calibration**
- Calibration of the input by simply editing the sensor calibration data printed on the label.
- Standard calibration with specific menu.
## Indicators, Alarm Units

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>72x36</th>
<th>48x48 (1/16 DIN)</th>
<th>48x96 (1/8 DIN)</th>
<th>96x96 (1/4 DIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High-performance models</strong></td>
<td>High speed</td>
<td>High resolution</td>
<td></td>
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<tr>
<td><strong>Limit switch models</strong></td>
<td>Temperature</td>
<td>650L</td>
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<td>Ovens, Heat treatments</td>
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<tr>
<td><strong>Multichannel models</strong></td>
<td>8 Channels</td>
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<td>Plastics, Plants</td>
</tr>
<tr>
<td><strong>Universal models</strong></td>
<td>RPM Frequency</td>
<td>Hz</td>
<td>RPM</td>
<td></td>
<td>Plastics, Various</td>
</tr>
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<td></td>
<td>V/Ac</td>
<td></td>
<td></td>
<td></td>
<td>Plastics, Various</td>
</tr>
<tr>
<td>Pressure Force Position</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Plastics, Packaging</td>
</tr>
<tr>
<td>Temperature Linear Potentiometers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Plastics, Packaging, Wood, Metal, Ovens</td>
</tr>
</tbody>
</table>

### Legend
- PC configuration
- Modbus 
- Modbus 

### Key Features
- **Temperature (°C/°F)**
- **Pressure (bar)**
- **Force (Kg)**
- **Position**
- **Output:** 0...10V, 4...20mA
<table>
<thead>
<tr>
<th><strong>INDICATORS</strong></th>
</tr>
</thead>
</table>
| **Front panel dimensions** | **4T 72**  
Indicator  
| **4T 48 / 4T96**  
Indicator  
|  

| **Inputs** | Number of analog inputs | 1 |
| **Sampling time** | 120 - 60 - 30 - 15msec |
| **Precision** | 0,2% ±1 digit |
| **Maximum resolution** | 8000 pti  
| 16000 pti |
| **Input filter** | 0...20,0 sec + display hysteresis 0...9,9 scale points |
| **Zero Offset** | Settable by user over entire scale range |
| **Application** | Indicator of physical quantities -1999...+9999  
(with or without decimal point) |

| **Thermocouples** | **Types** | J, K, T, E, N, S, R, B, LGost, U, G, D, C, custom, with scales in °C or °F (IEC 584) |
| **Cold junction compensation** | Internal, with automatic compensation |
| **Resistance thermometer** | **Types** | Pt100 DIN43710 (3 fili), Pt100 Japan, custom |
| **Thermistors** | **Types** | PTC, NTC (1K/25°C), custom |
| **Linear** | **Types** | 0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V, possible linearization on 32 segments |

| **Potentiometer** | **[R77 version] Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc** |

| **Pressure probe Load cells** | **Alternating sinusoidal (current transformer) Ranges** | **Application** |
| **Ranges** | - |
| **Application** | - |

| **Power supply for transmitter** | 18Vdc ±10% non-stabilized, 50mA 1,2Vdc for potentiometer >100D  
| - | 24Vdc ±10% non-stabilized, 50mA 15Vdc for transmitter; 50mA 1,2Vdc for potentiometer >100D |
| **Power supply** | 11...27Vdc, 18...27Vac ±10% 50/60Hz, not isolated from sensor  
| 11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz |
| **Faceplate protection level** | IP65 |
| **Certifications** | CE, EAC  
|  | UL, CE, EAC |
## Indicators, Alarm Units

<table>
<thead>
<tr>
<th>4A 48 / 4A 96</th>
<th>4B 96</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alternating current and voltage indicator</strong></td>
<td><strong>Pressure, force, position indicator</strong></td>
</tr>
<tr>
<td>48 x 48mm (1/16 DIN)</td>
<td>96 x 48mm (1/8 DIN)</td>
</tr>
<tr>
<td>96 x 48mm (1/8 DIN)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>120msec</td>
<td>120 - 60 - 30 - 15msec</td>
</tr>
<tr>
<td>0,2% f.s. ± 1 digit (per 2/20Vac, 20/50mAac, 1Aac)</td>
<td>0,2% ± 1 digit</td>
</tr>
<tr>
<td>0,5% f.s. ± 1 digit (for 200Vac, 500Vac, 5Aac)</td>
<td></td>
</tr>
<tr>
<td>8000 pti</td>
<td>16000 pti</td>
</tr>
<tr>
<td>0...20,0 sec + display hysteresis 0...9,9 scale points</td>
<td></td>
</tr>
<tr>
<td>Settable by user over entire scale range</td>
<td></td>
</tr>
<tr>
<td>Indicator of physical quantities</td>
<td>Indicator of physical quantities</td>
</tr>
<tr>
<td>-1999...+9999 (with or without decimal point)</td>
<td>-1999...+9999 (resolution 1 digit)</td>
</tr>
<tr>
<td>-</td>
<td>-19990...+99990 (resolution 10 digit)</td>
</tr>
<tr>
<td></td>
<td>Configurable decimal point position</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
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<tr>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc possible linearization on 32 segments</td>
<td>Autorange sensitivity 1,5...3,3mV/V possible linearization on 32 segments</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Direct non-isolated input or via transformer in voltage or AC</td>
<td>-</td>
</tr>
<tr>
<td>0...2/0...20/0...200/0...500Vac 0...20/0...50/0...200mAac, 0...1/0...5Aac</td>
<td>-</td>
</tr>
<tr>
<td>Voltmeter, Ammeter</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>1,2Vdc for potentiometer 5-10Vac/120mA; 15Vdc/50mA 24Vdc non stabilized, 50mA</td>
</tr>
<tr>
<td>11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz</td>
<td></td>
</tr>
<tr>
<td>IP 65</td>
<td>UL, CE, EAC</td>
</tr>
</tbody>
</table>

**Certifications:**
- CE
- EAC
- UL (4A96), CE, EAC
- UL, CE, EAC
### ALARM UNITS

#### 40T 72
**Alarm Unit**

<table>
<thead>
<tr>
<th>Front panel dimensions</th>
<th>72 x 36mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs</strong></td>
<td></td>
</tr>
<tr>
<td>Number of analog inputs</td>
<td>1</td>
</tr>
<tr>
<td><strong>Sampling time</strong></td>
<td>120 - 60 - 30 - 15msec</td>
</tr>
<tr>
<td><strong>Precision</strong></td>
<td>0,2% ±1 digit</td>
</tr>
<tr>
<td><strong>Maximum resolution</strong></td>
<td>8000 pti</td>
</tr>
<tr>
<td><strong>Input filter</strong></td>
<td>0...20,0 sec + display hysteresis 0...9,9 scale points</td>
</tr>
<tr>
<td><strong>Zero Offset</strong></td>
<td>Settable by user over entire scale range</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td>Indicator of physical quantities -1999...+9999 (with or without decimal point)</td>
</tr>
</tbody>
</table>

#### 40T 48 / 40T 96
**Alarm Unit**

<table>
<thead>
<tr>
<th>Front panel dimensions</th>
<th>48 x 48mm (1/16 DIN) / 96 x 48mm (1/8 DIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs</strong></td>
<td></td>
</tr>
<tr>
<td>Number of analog inputs</td>
<td></td>
</tr>
<tr>
<td><strong>Sampling time</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Precision</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum resolution</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Input filter</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Zero Offset</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Thermocouples**

| Types | J, K, T, E, N, S, R, B, LGost, U, G, D, C, custom with scales in °C or °F (IEC 584) |

**Cold junction compensation**

| Types | Internal, with automatic compensation |

**Resistance thermometer**

| Types | Pt100 DIN43710 (3-wires), Pt100 Japan, custom |

**Thermistors**

| Types | PTC, NTC (1K/25°C), custom |

**Linear**

| Types | 0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V |

**Potentiometer**

| (R77 version) Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc possible linearization on 32 segments |

**Pressure probe Load cells**

| Types | - |

**Alternating sinusoidal (current transformer)**

| Types | - |

**Ranges**

| - |

**Digital communication**

| Type | RS485, 1200...19200 baud MODBUS RTU, CENCAL GEFRAN |

**Digital input**

| Type | Optoisolated passive PNP isolated 1500V |

**Outputs**

| max 3 |

**Relay**

| NA max 4 |

**Logic**

| Type | With 18Vdc/dc power supply Rout 560Ω (6V/20mA) 24V [10V min / 20mA max] |

**Application**

| Interception, alarm, On/Off Control |

**Triac**

| Type | 24...240Vac ± 10% 2A max |

**Application**

| Alarm units, alarms, on/off control |

**Analog**

| Type | 4...20mA (R max 600Ω) res. 12bit, not isolated 0...10V, 4...20mA (Rmax = 500Ω) res. 12bit, not isolated |

**Application**

| Retransmission of variable |

**Power supply sensor or transmitter**

| 18Vdc; 50mA 24Vac ±10% non-stabilized, 50mA 15Vdc for transmitter, 50mA 1,2V for potentiometer |

**Power supply**

| 11...27Vac, 18...27Vac; ±10% 50/60Hz not isolated from sensor 11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz |

**Faceplate protection level**

| IP65 |

**Certifications**

| CE, EAC UL, CE, EAC |
## Indicators, Alarm Units

### 40A 48 / 40A 96
- Alternating current and voltage alarm unit
- **Front panel dimensions**: 48 x 48mm (1/16 DIN) / 96 x 48mm (1/8 DIN)
- **Sample time**: 120msec
- **Input filter**: 0...20,0 sec + display hysteresis 0...9,9 scale points
- **0-20,0 sec + display hysteresis 0...9,9 scale points**
- **Zero Offset**: Settable by user over entire scale range
- **Application**: Indicator of physical quantities -1999...+9999 (with or without decimal point)

### 40B 48
- Alternating current and voltage alarm unit
- **Front panel dimensions**: 48 x 48mm (1/16 DIN)
- **Input filter**: 0...20,0 sec + display hysteresis 0...9,9 scale points
- **Zero Offset**: Settable by user over entire scale range
- **Application**: Indicator of physical quantities -1999...+9999 (resolution 1 digit) -19990...+99990 (resolution 10 digit)

### 40B 96
- Pressure, force, position alarm unit
- **Front panel dimensions**: 96 x 48mm (1/8 DIN)
- **Input filter**: 0...20,0 sec + display hysteresis 0...9,9 scale points
- **Zero Offset**: Settable by user over entire scale range
- **Application**: Indicator of physical quantities -1999...+9999

### Technical Details
- **Input**: 1 analog input
- **Sampling time**: 120 - 60 - 30 - 15msec
- **Precision**: 0,2% ±1 digit (for 2/20Vac, 20/50mAac, 1Aac) 0,5% f.s. ±1 digit (for 200Vac, 500Vac, 5Aac)
- **Maximum resolution**: 8000 pti 16000 pti
- **Input filter**: 0...20,0 sec + display hysteresis 0...9,9 scale points
- **Zero Offset**: Settable by user over entire scale range
- **Application**: Indicator of physical quantities -1999...+9999

### Thermocouples Types
- Cold junction compensation: Internal, with automatic compensation

### Resistance Thermometer Types
- Pt100 DIN43710 (3-wires), Pt100 Japan, custom

### Thermistors Types
- PTC, NTC (1K/25°C), custom

### Linear Types
- 0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V

### Pressure Probe
- Load cells

### Alternating Sinusoidal (Current Transformer)
- Direct non-isolated input or via transformer in voltage or AC

### Ranges
- 0...2/0...20/0...200/0...500Vac 0...20/0...50/0...200mAac, 0...1/0...5Aac

### Power Supply
- Power supply sensor or transmitter
- 18Vdc; 50mA
- 24Vdc ±10% non-stabilized,

### Digital Communication
- RS485, 1200...19200 baud MODBUS RTU

### Digital Input Type
- Optoisolated passive PNP Isolated 1500V
- Tare zero, reset alarm latches, Hold, Flash

### Outputs
- max 3 max 4

### Alarm Units, Alarms
- Alarm units, alarms
- 11V Rout 2200 (6V/20mA)
- 24Vdc (10V min /20mA max)
- 24...240Vac ± 10% 3A max [for mod.40A96]
- 24...240Vac ± 10% 1A max

### Retransmission of Variable
- 1,2Vdc for potentiometer, 5-10Vdc/120mA; 15-24Vdc/50mA
- 11...27Vac/dc, 100...240Vac/dc, ±10% 50/60Hz

### Faceplate Protection Level
- IP65

### Certifications
- CE, EAC
## 40TB - Temperature and pressure alarm unit

<table>
<thead>
<tr>
<th>Front panel dimensions</th>
<th>96 x 96mm (1/4 DIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs</td>
<td>2</td>
</tr>
<tr>
<td>Number of analog inputs</td>
<td>2</td>
</tr>
<tr>
<td>Sampling time</td>
<td>120 - 60 - 30 - 15msec</td>
</tr>
<tr>
<td>Precision</td>
<td>0,2% ±1 digit</td>
</tr>
<tr>
<td>Maximum resolution</td>
<td>16000 pti</td>
</tr>
<tr>
<td>Input filter</td>
<td>0...20,0 sec + display hysteresis</td>
</tr>
<tr>
<td>Zero Offset</td>
<td>Settable by user over entire scale range</td>
</tr>
</tbody>
</table>

### Thermocouples
- Types: J, K, T, E, N, S, R, B, Looost, U, G, D, C, Custom with scale in °C or °F (IEC 584)

### Cold junction compensation
- Internal, with automatic compensation

### Resistance thermometer
- Types: Pt100 DIN43710 (3-wires), Pt100 Japan

### Thermostors
- Types: PTC, NTC [1K/25°C]

### Linear
- Types: 0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V

### Potentiometer
- Input from potentiometer (min 100Ω)

### Pressure probe Load cells
- Autorange sensitivity 1,5...3mV/V

### Frequency
- Type: Input from inductive or capacitive proximity encoder NAMUR Z or 3-wires limit switch. Input in alternating voltage 0,5...500V

### Application
- Limit Switch

### Digital input
- Type: 2 inputs from voltage-free contact

### Outputs
- NA

### Relay
- NA

### Logic
- Type: 1V Rout 2200Ω/6V/20mA

### Triac
- Type: 24...240V ±10% 3A max.

### Analog
- Type: 2 outputs: 0-10V, 0/4-20mA is.1500V, resolution 12 bit

### Power supply
- 100...240Vac/dc ± 10% 20...27Vac/dc ±10% 50/60Hz

### Faceplate protection level
- IP65

### Certifications
- UL, CE, EAC

## 40F 96 - Frequency Indicator

<table>
<thead>
<tr>
<th>Front panel dimensions</th>
<th>96 x 48mm (1/8 DIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inputs</td>
<td>1</td>
</tr>
<tr>
<td>Number of analog inputs</td>
<td>2</td>
</tr>
<tr>
<td>Sampling time</td>
<td>Configurable frequency: 100KHz max.</td>
</tr>
<tr>
<td>Precision</td>
<td>0,1% in autorange mode ±1 digit with fixed f.s.</td>
</tr>
<tr>
<td>Maximum resolution</td>
<td>-</td>
</tr>
<tr>
<td>Input filter</td>
<td>Fixed 100Hz, may be cut out</td>
</tr>
</tbody>
</table>

### Thermocouples
- Types: J, K, T, E, N, S, R, B, Looost, U, G, D, C, Custom with scale in °C or °F (IEC 584)

### Cold junction compensation
- Internal, with automatic compensation

### Resistance thermometer
- Types: Pt100 DIN43710 (3-wires), Pt100 Japan

### Thermostors
- Types: PTC, NTC [1K/25°C]

### Linear
- Types: 0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V

### Potentiometer
- Input from potentiometer (min 100Ω)

### Pressure probe Load cells
- Autorange sensitivity 1,5...3mV/V

### Frequency
- Type: Input frequency ranges 9.999; 99.99; 999.9; 9999

### Application
- Frequency meter with or without automatic scale and decimal point change, input frequency selectable in ranges: 9.999, 99.99, 999.9, 9999

### Digital input
- Type: 2 inputs from voltage-free contact

### Outputs
- max 3

### Relay
- max 5A, 250V resistive load cosφ = 1

### Logic
- Type: Alarm units, alarms

### Triac
- Type: Alarm units, alarms

### Analog
- Type: 4...20mA (Ri = 150Ω) resolution 12 bit non isolated

### Power supply
- 24Vdc; ±10% not stabilized 50mA max

### Faceplate protection level
- IP65
### 2400 Fast Indicator

- 96 x 48mm (1/8 DIN)
- 2 Main, 2 Auxiliaries
- 2 msec (ch1, ch2) 10 msec (ch3, ch4)
- 0.1 f.s. ±1digit, (0.2% f.s. for TC)

**Dimension:** 10000 pti

0...20.00 sec input reading, 0.0...9.9 sec display

Settable by user over entire scale range

Indicator of pressure, force, weight, shift, physical quantities

-19999...+99999 settable decimal point

J, K, R, S, T, C, D, B, E, L, LGOST, U, G, N, Pt20Rh-Pt40Rh, Custom

PT100 2/3-wires, scale in °C or °F

Possible linearization on 64 segments

- ≥1000, Ri > 10MΩ

Strain-gauge 350Ω; sensitivity 1.5...4mV/V

- -

- -

2, NPN, PNP, optoisolated, configurable function

Reset, Zero, Tare, Calibration, Loc/Rem, Hold, Flash

max 4; can be expanded up to 10 relay or logic outputs with MD82

5A/250V, contacts, resistive load cosφ= 1

Alarm units, alarms

24Vdc (20mA, max.12V)

Alarm units, alarms

- -

- -

- -

- -

- -

Isolated 1500V, 0/4...20mA, Rmax = 500Ω, ±10V, resolution 0.03%, configurable via software

0-10V, 0/4-20mA, resolution 12 bit, Isolated from main input

PV, retransmission, auxiliary inputs, peak

Isolated RS485 / RS232 (max 115200 baud), protocol MOD BUS RTU / PROFIBUS DP

Isolated RS485 (1200/115200 baud), Modbus RTU

Isolated 1500V, 5, 10Vdc/200mA or 24Vdc, ±5% 100mA

11...27Vac/dc ±10%, 100...240Vac/dc ±10% 50/60Hz, 10VA max., internal fuse

100...240 VAC/VDC ±10%, 50/60 Hz (on request 20...27 VAC/VDC ±10%) 5 W max

IP65

UL, CE, EAC

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### 650L / 1250L Limit Switch

- 48x48mm (1/16 DIN) / 48x96mm (1/8 DIN)
- 120-40 ms

TC inputs:

Calibration accuracy: < +/- (0,25% of reading value in °C ±0,1°C)

Cold junction accuracy: < +/- 1,5°C a 25°C room temperature

RTD input:

Calibration accuracy: < +/- 10,15% del valore letto in °C ±0,4°C

Temperature drift: < +/- (0.005% of reading value in °C ±0,015°C)/°C from 25°C room temperature

256.000 pti

Digital filter 0,0...20.0 s

Settable by user over entire scale range

Max Temperature Limit Alarm, with threshold protected by password

J, K, R, S, T, C, D, B, E, L, LGOST, U, G, N, Pt20Rh-Pt40Rh, Custom

PT100, JPT100, 2/3-wires, scale in °C or °F

- -

- -

- -

- -

- -

NPN. PNP (nr.1 mod. 650L) (nr.5 mod. 1250L)

Alarm acknowledge, Peak value reset, Reset time totalizer

max 4

5A/250Vac, resistive load cosφ=1

Max temperature Limit Alarm

- -

- -

- -

- -

Isolated 1500V, 0/4...20mA, Rmax = 500Ω, ±10V, resolution 0.03%, configurable via software

0-10V, 0/4-20mA, resolution 12 bit, Isolated from main input

PV, retransmission, auxiliary inputs, peak

Isolated RS485 / RS232 (max 115200 baud), protocol MOD BUS RTU / PROFIBUS DP

Isolated RS485 (1200/115200 baud), Modbus RTU

Isolated 1500V, 5, 10Vdc/200mA or 24Vdc, ±5% 100mA

11...27Vac/dc ±10%, 100...240Vac/dc ±10% 50/60Hz, 10VA max., internal fuse

100...240 VAC/VDC ±10%, 50/60 Hz (on request 20...27 VAC/VDC ±10%) 5 W max

IP65

UL, FM, CE