

Indicators Alarm Units Timers and Counters



Our Knowhow,
Your Solution.

MICROPROCESSOR INDICATORS / ALARM UNITS

Gefran indicators and alarm units directly acquire a wide range of physical variables, such as temperature, pressure, position, force/weight, humidity, and many others via normalized signals.

Several measurement speeds, read resolutions, and specific functions (assignable to auxiliary inputs and to intercept outputs) can be chosen from the many models in the catalog.

Gefran offers complete display solutions for industry, supplying its own sensors and guaranteeing maximum compatibility and integration among components.

INPUTS

Universal analog inputs configurable for main variables and auxiliary analog/digital inputs for added functions.

IP65

High front panel protection without added accessories.

OUTPUTS

Various types of outputs to manage alarms and input retransmission.

DISPLAY

Clear and efficient display of main variables.



KEYBOARD

Keyboard for rapid setting and diagnostics.

LEDs

LEDs for continuous display of main instrument data.

Characteristics

Flexibility

HW/SW flexibility.

Hardware recognition

Automatic recognition of hardware resource.

Process input flexibility

Many types of input sensors can be connected and powered by the instrument.

Simple settings

Setting via parameters

Shared software

All models are configured with the same procedure

Parameters with acronyms

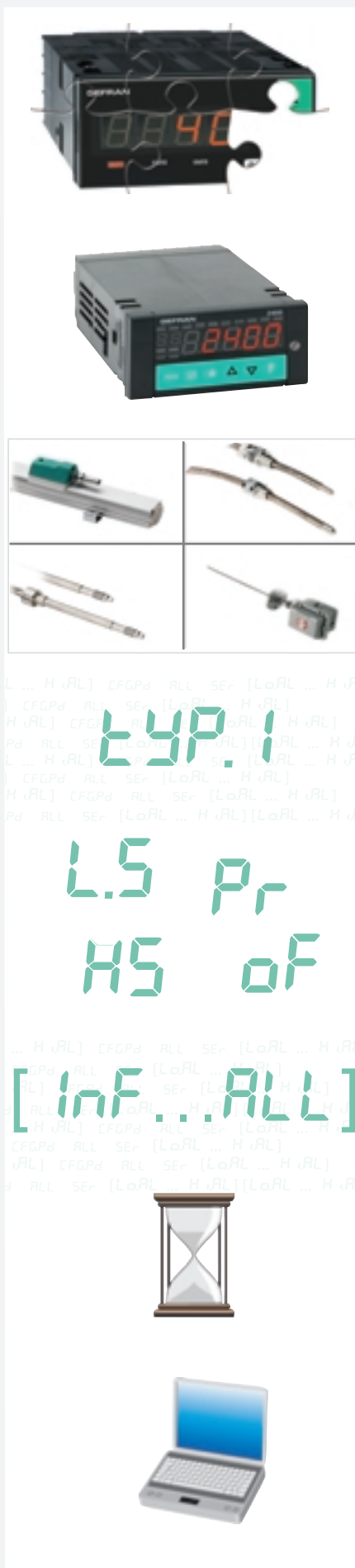
Displayed parameters described by an acronym.

Ready to use

Preinstalled hardware and software configuration.

Programming from PC

GF_eXpress, a single SW for all models



Advantages

Every resource is used

Rational use of resources generates highly profitable and efficient operation.

Safety

The user sets only the parameters necessary, for safe and immediate use of the instrument

One instrument, many applications

Thanks to its flexibility, you can now use one instrument for many applications.

Immediate learning

Very little time is needed to configure the instrument for specific requirements.

Reuse

Shared software lets you go from one controller to another with great ease. Programming is learned only once.

Intuitive setting

The use of acronyms lets you set the parameters with extreme confidence.

"Zero" startup time

The user can start the instrument in a time virtually equal to zero.

Easy configuration

Copy/paste, save recipe, trend functions.

BASIC MODELS

4/40 series

the best solutions for every format

Flexibility, easy operation, compactness: these are the advantages of the many indicators and alarm units in the 4/40 series.

Configuration of all popular industrial sensors (thermocouples, resistance thermometers, PTC, NTC, linears, custom, potentiometers, strain-gauge, VAC, VDC, frequency), easy configuration from keyboard and by PC, high "sample time" and resolution levels, a variety of standard formats, are only some of the "pluses" of this complete line.

APPLICATIONS

- Plastic extrusion machines and lines
- Melt pressures and temperature, speed
- Weighing systems
- Test benches
- Wood- and marble-working machines
- Rolling press lines

LEGENDA



PC configuration



Modbus RTU

	Temperature Linear Potentiometers	Pressure Force Position	V/Aac
96x96 1/4 DIN	$^{\circ}\text{C}/^{\circ}\text{F}$ 0...10V 4...20mA Potentiometers	Kg bar Magnetostrictives	V/Aac
48x96 1/8 DIN	 4T96 - 40T96	 4B96 - 40B96	 4A96 - 40A96
48x48 1/16 DIN	 4T48 - 40T48	 4B48 - 40B48	 4A48 - 40A48
72x36	 40T72		
	Plastics, Packaging, Wood, Metal, Ovens	Plastics, Packaging	Plastics, Various

HIGH-PERFORMANCE MODELS

2400 Series speed and precision

High-resolution fast indicator, up to 4 channels, 96x48 (1/8 DIN) format for measurement and alarming of pressure (direct and differential), displacement, force, temperature, process variables measured by amplified sensors.

CALCULATION CAPACITY

- Compare input variables, calculate the engineering unit, calculate flow rates, ratio, etc.
- Results of math functions can be used as process value / alarm setpoint / retransmitted output.

TWO CHANNELS FOR MEASUREMENT / WEIGHING

- Two main inputs "universal" analog let you simultaneously make two rapid acquisitions with a single instrument
- The instrument can supply up to 6 load cells directly
- Resolution: 100,000 points, with only 2 ms of sample time

EASY CALIBRATION

- You can calibrate the input by copying the sensor "target" data
- You can always calibrate conventionally by using the menu.
- Customizable alarm messages
- Automatic scrolling of PV reads
- MODBUS, PROFIBUS serial connection

MULTICHANNEL MODELS

2308 Series centralize, indicate, intercept

The 2308 concentrates up to signals from different types of inputs, such as thermocouples, resistance thermometers, (2 or 3 wires) or linear signals (4...20mA, 0...50mV) while simultaneously reading data via MODBUS serial line and providing alarm relays for setpoints: all this makes it absolutely unique, in compact 1/8 DIN size.

RPM Frequency	High Speed	
Hz RPM	°C/°F bar Kg 0...10V 4...20mA  Magnetostriictives  Potentiometers	2 Channels °C/°F 0...10V 4...20mA bar  40TB  
 40F96 	4 Channels  2400  	8 Channels °C/°F 0...10V 4...20mA bar  2308  
Plastics, Various	Climatic chambers, Dosers, Pressure, Test benches, Laboratories	Plastics, Plants



**4A 48 / 4A 96**

Alternating current and voltage indicator

4B 48

Pressure, force, position indicator

4B 96

Pressure, force, position indicator

48 x 48mm [1/16 DIN] / 96 x 48mm [1/8 DIN]

48 x 48mm [1/16 DIN]

96 x 48mm [1/8 DIN]

1

1

1

120msec

120 - 60 - 30 - 15msec

120 - 60 - 30 - 15msec

0,2% f.s. ± 1 digit (for 2/20Vac, 20/50mAac, 1Aac)
0,5% f.s. ± 1 digit (for 200Vac, 500Vac, 5Aac)0,2% ± 1 digit0,2% ± 1 digit

8000 pti

8000 pti

16000 pti

0...20,0 sec + display hysteresis
0...9,9 scale points0...20,0 sec + display hysteresis
0...9,9 scale points0...20,0 sec + display hysteresis
0...9,9 scale points

Settable by user over entire scale range

Settable by user over entire scale range

Settable by user over entire scale range

Indicator of physical quantities -1999...+9999
(with or without decimal point)Indicator of physical quantities -1999...+9999
(with or without decimal point)Indicator of physical quantities
-1999...+9999 (resolution 1 digit)
-19990...+99990 (resolution 10 digit)
Configurable decimal point position

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Input from potentiometer (min 100 Ω)
powered by instrument 1,2Vdc
possible linearization on 32 segmentsInput from potentiometer (min 100 Ω)
powered by instrument 1,2Vdc
possible linearization on 32 segmentsAutorange sensitivity 1,5...3,3mV/V
possible linearization on 32 segmentsAutorange sensitivity 1,5...3,3mV/V
possible linearization on 32 segmentsDirect non-isolated input or via
transformer in voltage or AC

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

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Voltmeter, Ammeter

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1,2Vdc for potentiometer
5-10Vdc/120mA; 15Vdc/50mA
24Vdc non-stabilized, 50mA1,2Vdc for potentiometer
5-10Vdc/120mA; 15Vdc/50mA
24Vdc non-stabilized, 50mA11...27Vac/dc, 100...240Vac/dc;
 $\pm 10\%$ 50/60Hz11...27Vac/dc, 100...240Vac/dc;
 $\pm 10\%$ 50/60Hz11...27Vac/dc, 100...240Vac/dc;
 $\pm 10\%$ 50/60Hz

IP65

IP65

IP65



(4A96)



**40T 72**

Alarm Unit

40T 48/ 40T 96

Alarm Unit

FRONT PANEL DIMENSIONS

72 x 36mm

48 x 48mm (1/16 DIN) / 96 x 48mm (1/8 DIN)

INPUTS

Number of analog inputs

1

1

Sampling time

120 - 60 - 30 - 15msec

120 - 60 - 30 - 15msec

Precision

0,2% ±1 digit

0,2% ±1 digit

Maximum resolution

8000 pti

16000 pti

Input filter

0...20,0 sec + display hysteresis
0...9,9 scale points0...20,0 sec + display hysteresis
0...9,9 scale points

Zero Offset

Settable by user over entire scale range

Settable by user over entire scale range

Application

Indicator of physical quantities -1999...+9999
(with or without decimal point)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)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

Internal, with automatic compensation

RESISTANCE THERMOMETER

Types

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

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

THERMISTORS

Types

PTC, NTC (1K/25°C), custom

PTC, NTC (1K/25°C), custom

LINEAR

Types

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

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

Possible linearization on 32 segments

Possible linearization on 32 segments

POTENTIOMETER

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(R77 version) input from potentiometer (min 100Ω)
powered by instrument 1,2Vdc**PRESSURE PROBE
LOAD CELLS**

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**ALTERNATING SINUSOIDAL
(current transformer)**

Types

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Ranges

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Application

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DIGITAL COMMUNICATION

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RS485, 1200...19200 baud
MODBUS RTU, CENCAL GEFTRAN**DIGITAL INPUT**

Type

Optoisolated passive PNP isolated 1500V

Optoisolated passive PNP isolated 1500V

Application

Tare zero, reset alarm latches, Hold, Flash

Tare zero, reset alarm latches, Hold, Flash

OUTPUTS

max 3

max 4

RELAY

NA

max 5A, 250V resistive load $\cos\phi = 1$ max 5A, 250V resistive load $\cos\phi = 1$

Application

Alarm units, alarms, on/off control

Alarm units, alarms, on/off control

LOGIC

Type

With 18Vac/dc power supply Rout 560Ω (6V/20mA)

24V (10V min / 20mA max)

Application

Alarm units, alarms, on/off control

Alarm units, alarms, on/off control

TRIAC

Type

24...240Vac ± 10% 2A max

24...240Vac ± 10% 1A max

Application

Alarm units, alarms, on/off control

Alarm units, alarms, on/off control

ANALOG

Type

4...20mA (R max 60Ω) resolut. 12bit not isolated

0...10V, 4...20mA (Rmax = 500Ω) res. 12bit not isolated

Application

Retransmission of variable

Retransmission of variable

**SENSOR OR TRANSMITTER
POWER SUPPLY**

18Vdc; 50mA

24Vdc ±10% non-stabilized, 50mA 15Vdc for transmitter,
50mA 1,2V for potentiometer**POWER SUPPLY**11...27Vdc, 18...27Vac; ±10% 50/60Hz
not isolated from sensor11...27Vac/dc, 100...240Vac/dc;
±10% 50/60Hz**FACEPLATE PROTECTION LEVEL**

IP65

IP65

CERTIFICATIONS



40A 48 / 40A 96

Alternating current and voltage alarm unit

40B 48

Alternating current and voltage alarm unit

40B 96

Pressure, force, position alarm unit

48 x 48mm (1/16 DIN) / 96 x 48mm (1/8 DIN)

48 x 48mm (1/16 DIN)

96 x 48mm (1/8 DIN)

1

1

1

120msec

120 - 60 - 30 - 15msec

120 - 60 - 30 - 15msec

0,2%f.s. ± 1 digit (for 2/20Vac, 20/50mAac, 1Aac)
0,5% f.s. ± 1 digit (for 200Vac, 500Vac, 5Aac)

0,2% ± 1 digit

0,2% ± 1 digit

8000 pti

8000 pti

16000 pti

0...20,0 sec + display hysteresis
0...9,9 scale points

0...20,0 sec + display hysteresis
0...9,9 scale points

0...20,0 sec + display hysteresis
0...9,9 scale points

Settable by user over entire scale range

Settable by user over entire scale range

Settable by user over entire scale range

Indicator of physical quantities -1999...+9999
(with or without decimal point)

Indicator of physical quantities -1999...+9999
(with or without decimal point)

Indicator of physical quantities -1999...+9999
(resolut. 1 digit) -19990...+99990 (resolut. 10 digit)
Configurable decimal point position

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

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

-

Autorange sensitivity 1,5...3,3mV/V
possible linearization on 32 segments

Autorange sensitivity 1,5...3,3mV/V
possible linearization on 32 segments

Direct non-isolated input or via
transformer in voltage or AC

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

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Voltmeter, Ammeter

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RS485, 1200...19200 baud
MODBUS RTU, CENCAL GEFRA

Optoisolated passive PNP Isolated 1500V

Optoisolated passive PNP Isolated 1500V

Optoisolated passive PNP Isolated 1500V

Tare zero, reset alarm latches, Hold, Flash

Tare zero, reset alarm latches, Hold, Flash

Tare zero, reset alarm latches, Hold, Flash

max 3

max 3

max 4

max 5A, 250V resistive load $\cos\phi = 1$

max 5A, 250V resistive load $\cos\phi = 1$

max 5A, 250V resistive load $\cos\phi = 1$

Alarm units, alarms

Alarm units, alarms, on/off control

Alarm units, alarms, on/off control

11V Rout 220 Ω (6V/20mA)

11V Rout 220 Ω (6V/20mA)

24Vdc (10V min /20mA max)

Alarm units, alarms

Alarm units, alarms, on/off control

Alarm units, alarms, on/off control

24...240Vac $\pm 10\%$ 3A max (for mod. 40A96 only)

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24...240Vac $\pm 10\%$ 1A max

Alarm units, alarms

Alarm units, alarms

Alarm units, alarms

4...20mA (R max 150 Ω) res. 12bit non isolated

4...20mA (R max 150 Ω) res. 12bit non isolated

0...10V, 4...20mA (Rmax 500 Ω) res.12bit non isolated

Retransmission of variable

Retransmission of variable

Retransmission of variable

-

1,2Vdc for potentiometer
5-10Vdc/120mA; 15-24Vdc/50mA

1,2Vdc for potentiometer
5-10Vdc/120mA; 15-24Vdc/50mA

11...27Vac/dc, 100...240Vac/dc;
 $\pm 10\%$ 50/60Hz

11...27Vac/dc, 100...240Vac/dc;
 $\pm 10\%$ 50/60Hz

11...27Vac/dc, 100...240Vac/dc;
 $\pm 10\%$ 50/60Hz

IP65

IP65

IP65



(4A96)





MODEL

40TB

Temperature and pressure alarm unit

40F 96

Frequency Indicator

FRONT PANEL DIMENSIONS

96 x 96mm (1/4 DIN)

96 x 48mm (1/8 DIN)

INPUTS

Number of analog inputs

2

1 mech. contact, logic or alternating voltage drive

Sampling time

120 - 60 - 30 - 15msec

Configurable frequency: 100KHz max.

Precision

0,2% ±1 digit

0,1% in autorange mode ±1 digit with fixed f.s.

Maximum resolution

16000 pti

-

Input filter

0...20,0 sec + display hysteresis
0...9,9 scale points

Fixed 100Hz, may be cut out

Zero offset

Settable by user over entire scale range

Settable by user over entire scale range

Application

Indicator of frequencies -1999...+9999
(settable decimal point)Indicator of frequencies 0...+9999
(automatic or settable decimal point)

THERMOCOUPLES

Types

J, K, T, E, N, S, R, B, LGost, 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

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THERMISTORS

Types

PTC, NTC (1K/25°C)

-

LINEAR

Types

0...20mA, 4...20mA, 0...60mV, 0...1V,
0...5V, 0...10V
Ri > 500Ω for voltage signals ≤ 1V
Ri > 20KΩ for voltage signals > 1V
Ri = 50Ω for current signals

Possible linearization on 32 segments

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POTENTIOMETER

Input from potentiometer (min 100Ω)
powered by instrument 1,2Vdc

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PRESSURE PROBE / LOAD CELLS

Autorange sensitivity 1,5...3,3mV/V

-

FREQUENCY

Type

-

-

Type

-

Input from inductive or capacitive proximity
encoder NAMUR 2- or 3-wires limit switch
Input in alternating voltage 0,5...500V

Type

-

Input frequency ranges ≤ 20KHz

Display

-

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

Applications

Revolution counter or frequency meter with
programmable sampling time

DIGITAL INPUT

Type

2 inputs from voltage-free contact

Optoisolated passive PNP isolated 1500V

Application

Tare zero, reset alarm latches, Hold, Flash

Tare zero, reset alarm latches, Hold, Flash

OUTPUTS

max 3

max 3

RELAY

NA

max 5A, 250V resistive load cosφ = 1

max 5A, 250V resistive load cosφ = 1

Applications

Alarm units, alarms

Alarm units, alarms

LOGIC

Type

-

11V Rout 220Ω(6V/20mA)

Application

-

Alarm units, alarms

TRIAC

Type

-

24...240V ±10% 3A max.

Application

-

Alarm units, alarms

ANALOG

Type

2 outputs: 0-10V, 0/4-20mA is.1500V,res.12 bit

4...20mA (R max 150Ω) resolution 12bit non isolated

Application

Configurable

Retransmission of variable

DIGITAL COMMUNICATION

RS485, RS232 1200...19200 baud
MODBUS RTU, CENCAL GEFRA

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SENSOR OR TRANSMITTER
POWER SUPPLY1,2Vdc for potentiometer > 100Ω;5,10Vdc max.
120A for strain gauge 15Vdc max/80mA; 24Vdc
max 50mA for transm. 2-wires24Vdc; ±10% not stabilized 50mA max
5Vdc/120mA; 12Vdc/50mA max

POWER SUPPLY

100...240Vac/dc ± 10%
20...27Vac/dc ±10% 50/60Hz11...27Vac/dc, 100...240Vac/dc;
±10% 50/60Hz

FACEPLATE PROTECTION LEVEL

IP65

IP65

CERTIFICATIONS





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]

100000 pti

0,0...20,00 sec input reading,
0,0...9,9 sec display

Settable by user over entire scale range

Indicator of pressure, forces, weight, shift,
physical quantities -19999...+99999
settable decimal point

J, K, R, S, T with scale in °C or °F

Internal / external

RTD 2/3/4-wires, Pt100, scale in °C or °F
-
Strain-gauge: 5/10Vdc 200mA, 350Ω
Potentiometer: ≥100Ω, Ri > 10MΩ @ 2,5Vdc
Dc Linear: 0/4...20mA (Ri = 50Ω)
±100mV, Ri > 10MΩ; ±1V...±10V, Ri > 2MΩ;
Auxiliary input: 0...10V (Ri ≥ 2MΩ);
0/4...20mA (Ri = 50Ω)
Possible linearization on 64 segments
≥100Ω, Ri > 10MΩ
Strain-gauge 350Ω; sensitivity 1,5...4mV/V

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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

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Isolated 1500V, 0/4...20mA, Rmax = 500Ω, ±10V,
resolution 0,03%, configurable via software,

PV retransmission, auxiliary inputs, peak

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

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

11...27Vac/dc ±10%; 100...240Vac/dc ±10%
50/60Hz, 12VA max., internal fuse

IP65



2308

Multichannel Indicator

96 x 48mm (1/8 DIN)

8

900 msec

0,2% f.s. ± 1digit for linear inputs;
0,5%f.s. ± 1 digit for TC, RTD, mVac inputs

4000 pti

Fixed 120 msec, may be cut out

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Indicator of temperature and
physical quantities -999...3000
settable decimal point

J, K, R, S, T with scale in °C or °F

Internal, with automatic compensation

RTD 2/3-wires, Pt100, scale in °C or °F

-

0...20mV, 0...50mV, 0...100mV, 0...10V (Ri ≥ 1MΩ);
0/4...20mA (Ri = 5Ω); 100mVac,
external dividers
provided for signals up to 1500Vac
and external shunt for 20Aac and 5Aac

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MODEL

FRONT PANEL DIMENSIONS

Number of analog inputs INPUTS

Sampling time

Precision

Maximum resolution

Input filter

Zero offset

Application

Types THERMOCOUPLES

Cold junction compensation

Types RESISTANCE THERMOMETER

Types THERMISTORS

Types LINEAR

POTENTIOMETER

PRESSURE PROBE / LOAD CELLS

Type FREQUENCY

Type

Type

Display

Applications

Type DIGITAL INPUT

Application

OUTPUTS

NA RELAY

Applications

Type LOGIC

Application

Type TRIAC

Application

Type ANALOG

Application

DIGITAL COMMUNICATION

SENSOR OR TRANSMITTER
POWER SUPPLY

POWER SUPPLY

FACEPLATE PROTECTION LEVEL

CERTIFICATIONS

Timers / Counters

- Fully configurable
- Relay outputs
- Multiple timer / counter function modes
- Frequency meter function (556)



	one time	two times	count	one display	two display
Timer up to 999 sec.	55				
Timer up to 9,59h		550		550	
Timer up to 99,59h		556	556		556
Counter 100Hz				550	
Counter 5Khz			556		556
Frequency meter 5Khz				556	

			
MODEL	55 Multiscale timer with digital setting	550 Timer Counter	556 Timer Counter / Frequency meter
FRONT PANEL DIMENS.	48 x 48mm (1/16 DIN)	48 x 48mm (1/16 DIN)	48 x 48mm (1/16 DIN)
DISPLAY	red LED on during timing interval	3-digit display with 14mm green LEDs	2 x 4 digit display with 10/7mm green LEDs
OPERATING PRINCIPLE	Digital logic	Microprocessor	Microprocessor
INPUTS	-	2 control inputs NPN configurable	3 control inputs NPN configurable
FULL SCALE TIMES/COUNTS	9.99 sec 99.9 sec 999 sec	Timer 9.99 sec 99.9 sec 999 sec 9.59 min 9.59 h Counter max 3 digit (999) with multiplication :1, :2, :10, :100, x2	Timer 9.999 sec 99.99 sec 999.9 sec 9999 sec 99.59 min 99.59 h Counter max 4 digit (999) with multiplication :1, :2, :10, :100, x2
OUTPUTS	2 relays 5A/250Vac cosφ = 1	2 relays 5A/250Vac cosφ = 1	1 relay 5A/250Vac cosφ = 1
MAX FREQUENCY OF CONTROL INPUTS	-	100Hz	Selectable maximum frequency (with duty cycle 50%) 100Hz, 1KHz, 5KHz
TRIP DELAY	5 msec	max 6 msec	max 6 msec
DIGITAL COMMUNICATION	-	-	-
SENSOR OR TRANSMITTER POWER SUPPLY	-	-	12Vdc; 30mA
POWER SUPPLY	24/48Vac ±10% 50/60Hz 6VA max 110/220Vac-120/240Vac ±10% 24Vdc ±10% 50/60Hz 3VA max	110/220Vac ±10% 120/240Vac ±10% 24/48Vac ±10% 24Vdc ±10% 50/60Hz 5VA max	110/220Vac ±10% 120/240Vac ±10% 24/48Vac ±10% 24Vdc ±10% 50/60Hz 5VA max
NOTES	Setting the scale with preselector	- Quartz time base 12 function modes and 9 output functions configurable from keyboard	- Quartz time base 6 time scales, 4 types of timer/counter, 4 frequency meter function modes 6 output functions configurable from keyboard - Count sequence is displayed directly in engineering units - Counts retained in absence of power supply
FACEPLATE PROTECTION LEVEL	IP20 (IP65 with protective cover)	IP54 (IP65 with protective cover)	IP54 (IP65 with protective cover)

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 and saving of historical data
- Recovery of factory settings
- Custom linearization
- On-line user manual



Accessories

MD8

External units for 2308/2400

- 8 relay or added logic outputs.
- LED signal for ON outputs.



SHUNT

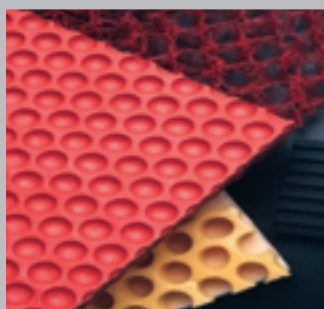
Signal adapter

- Inputs $\pm V$, mA.
- Output mV, Volt.



Applications

Plastics



Test benches



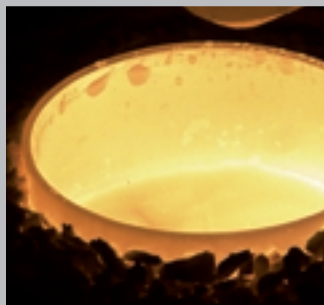
Rubber



Bending
Rolling press



Ovens



Pharmaceuticals



Food



Petrochemical



Water
treatment



Material tests



Dosers



Wood working
machines



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