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JUMO IMAGO E3000

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# (**JUMO**) **IMAGO** F3000 **Process controllers** for the meat processing industry

# **Brief description**

These process controllers are built to a modular design, and are suitable for the control and regulation of cooking, smoking and climate-control installations, and all associated equipment such as smoke generators, catalyzers etc. They are available in both upright (portrait) and horizontal (landscape) formats.

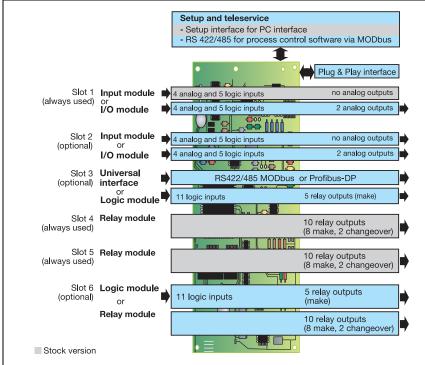
Fax:

The unit has a 5" color display capable of showing 27 colors. Templates for the user interface can be individually adjusted and laid out by the users themselves. Texts, process values, background diagrams and icons can be arranged as required. A status line indicates the last alarm that occured. LED displays have also been included, so that the most important process variables are visible from a distance. Individual keys can be assigned to special functions and labelled accordingly.

The instrument can store up to 99 named profile programs of up to 99 segments. All the processes required in the system are defined in 99 process steps and then simply called up sequentially for the program entry. An optional Plug & Play memory is available that can store all the data from the instrument, thus enabling easy exchange of hardware without any problems caused by lost data. The "Teleservice" software makes is possible to carry out configuration from a remote location, via a modem and the telephone network, thus saving on-site service costs.

A communication interface for MODbus or Profibus-DP facilitates integrating the instrument into a network.

# **Block structure**



Approvals/approval marks (see techn. data)



Type 700101/1...

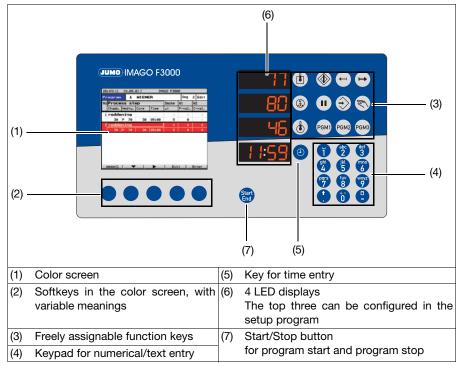
# **Key features**

Start End

- Two screen layout templates (masks) for automatic operation and one for the basic status, all freely editable
- 5" color display, 12mm LED displays for process values
- Plug & Play memory, to back up configuration data, transfer programs from one instrument to another, and to read in instrument software
- Configuration and parameter levels in English, German, French
- Math and logic functions
- Teleservice via modem
- Setup program for Windows 95/98/NT4.0/2000/ME/XP
- Program editor

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## **Display and control elements**



## Programs

99 profile programs can be entered, stored, and changed at any time. They are made up of various process steps with the associated setpoint values. A program can have a maximum of 99 segments. A total of 3000 segments can be stored for all programs together. The programs are chosen from a list or selected by meaningful icons.



#### Segments

A segment consists of a process step, up to 9 setpoint values, and the segment time. Various conditions for moving to the next step control the segment sequence.

#### **Process steps**

A process step contains various pre-defined systems states for smoking, reddening etc., which are usually specified by the system manufacturer.

The user only has to select the process and enter the appropriate setpoints. Up to 99 process steps can be stored.

#### Step-on conditions

The system steps on to the next segments when...

- ... the segment time has elapsed
- ... the programmed core temperature has been reached
- ... the segment time has elapsed and/or the programmed core temperature has been reached.
- ... the programmed final F value has been reached.
- ... the programmed final C value has been reached.
- ... a logic input that was configured as a condition for stepping on has been activated.
- ... the programmed final F value and the programmed core temperature have been reached.

#### **Cooking process**

The process can be controlled by the delta cooking or F-value cooking methods.

#### Signal for end of program

This is provided by a relay output.

#### **Operating functions**

18 of the total of 36 operating outputs can have a switching response assigned. They can be configured for ON-advance, OFFadvance, ON-delay or OFF-delay with respect to the changeover point from one segment to another. A pulse/pause ratio can also be selected. All times can be set individually.

#### 2 timers

After entering an operating time for the system, a counter runs and the system has to be enabled by a password. A second counter can, for instance, be used to monitor and signal cleaning intervals.

# Math and logic functions

The math module makes it possible to include setpoints, output levels, analog input measurements and the like in a mathematical formula.

The logic module can be used to create a logical combination of such variables as logic inputs, limit comparators and operating outputs.

A maximum of 4 math functions and 8 logic combinations can be entered via the setup program, and the results of these functions can be delivered at the outputs or used internally.

All logic formulae are processed and become effective within 100ms.

# Self-optimization

Standard features include self-optimization, making it possible for a user to adapt the controller to match the control loop without any knowledge of control systems engineering.

This feature tests and evaluates the response of the control loop to specific changes in the control input parameters. The control parameters Xp, Tn, Tv and Cy are calculated.

# PC programs

#### Setup program

The setup program for configuring the instrument can be installed in English, German or French. A PC can be used to create sets of data, edit them, transfer them to the process controls, or read them out from the instrument. The sets of data are stored and managed. 3 process layouts can be freely configured.

#### Teleservice

- Remote configuration and diagnosis of the system via modem
- Establish a connection through the setup program, dialling by:
  a) direct-dialling through the setup, or
  b) callback
- Display system status, such as operating modes, logic inputs and outputs, alarms and system information.

#### Process steps

Process steps are defined through the setup program and transferred to the instrument. The program editor is used to compile the programs.

# RS422/RS485 interface (option)

The serial interface is used for communication with higher-level (supervisory) systems, and includes electrical isolation. The transmission protocols used are MODbus and Profibus.

# Plug & Play memory (option)



This is plugged into the back of the instrument, and can store all the instrument data, or a selection:

- parameter and configuration data
- process steps
- user programs
- instrument software version

Practical applications are for:

- simple configuration after a hardware replacement
- reading in new setup data from the system manufacturer
- copying user programs
- reading in new applications programs from the manufacturer
- reading in new instrument software

# Interfaces for teleservice, setup and visualization

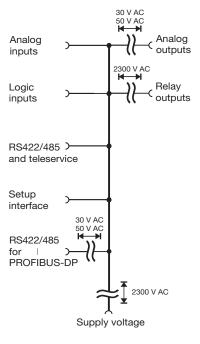
RS422/485 MODbus, Profibus, visualization universal interface RS422/485 for teleservice, visualization 80000 46 💿 💿 🗠 1 #59 🕘 000 Sur Modem RS 422/485 for teleservice, visualization 6 88 0 0 0 0 46 💿 💿 🗠 - 1:59 💿 Sun

PC interface with TTL/RS232 converter

# Extract from the parameter level

Screen layout Three freely editable screens (for basic status, Automatic 1 and Automatic 2) are created in the setup program and then transferred to the instrument.	B211212 03.02.01 Image F3000 Grundstellung Anlagenname Istuerte 77 1 80 3 46 1 ILetztes POH: Programmane Keine Heldung 1 Details Prog MENUE	B6129156         02.02.01         Image F3800           WIENER kochen         Sollwerte         OUT           77         70         1           80         60         2           46         40         3           11:59         11:59           Keine Heldung !         Out	B2:13:27         03:02:01         Image F3000           WIENER kochen         Sollwerte         OUT           Ø         F         Ø         5           7         C         Ø         7           ÁT         Ø         7         11:32           Keine Meldung I         Ö         Details         Proc
<b>Smoke generator</b> The smoke generator is activated by an operating function. The smoke intensity can be altered while the profile program is running.	t2 = Einschaltdauer	Abschnitt Räuchern t1 t2 t4 w <sub>fauch</sub> /100) · t3 Sollwert für Intensität	Rachersonge     21       Finachersonge     Image and the second
Function keys The instrument is supplied as standard with the function keys printed as shown on the right. Replaceable inserted strips can be used to provide other legends and functions.		Assignment of the relay outputs Each relay output can be as- signed to an instrument func- tion, a time event or an input/ output switching action.	Relaisausgang 1     ×       Funktion:
Texts and names can be defined for: analog and logic inputs, operating contacts, relay outputs, process steps, pro- grams, other languages.	Name         X           Environing         Analogoriging           Steak Intrafile         Relainungings           No.         Name           No.         Name           Steak Intrafile            Steak Intrafile            Steak Intrafile            Steak Intrafile            Steak Intrafile            Steak Int S            Steak Int S	<b>Fan control</b> The fan power stages can be switched on by various logic signals within the instrument, such as a limit comparator.	Latherstreamang C Anno En Hockindrae (P s Frantisturite (P s Asthermang State 2 Asthermang State 2 A

# **Electrical isolation**



# **Technical data**

Analog inputs (max. two I/O modules, each with 4 inputs)

Thermocouple	es	Range	Meas. accuracy	Ambient temperature error
Fe-Con L		-200 to + 900°C	≤0.4%	100 ppm/°C
Fe-Con J	EN 60584	-200 to +1200°C	≤0.4%	100 ppm/°C
NiCr-Ni K	EN 60584	-200 to +1372°C	≤0.4%	100 ppm/°C
Cold junction			internal Pt100	

Resistance t	hermometer	Connection type	Range	Meas. accuracy	Ambient temperature error
Pt100	EN 60751	3-wire	-200 to +850°C	≤0.1%	100 ppm/°C
Sensor lead r	esistance		max. $30\Omega$ per conductor in 2-wire/3-wire circuit		
Measuring cu	irrent		250µA		
Lead comper	isation		Not required for 3-wire circuit. For a 2-wire circuit, lead compensation can be provided in the software by a process value correction.		

Standard signals	Range	Meas. accuracy	Ambient temperature error
Voltage	$0 - 1$ V, input resistance R <sub>E</sub> > 100k $\Omega$	≤0.1%	100 ppm/°C
	0 - 10V, input resistance R <sub>E</sub> > 100k $\Omega$	≤0.1%	100 ppm/°C
Current	$0 - 20$ mA, voltage drop $\le 1V$	≤0.1%	100 ppm/°C
	$4 - 20$ mA, voltage drop $\le 1V$	≤0.1%	100 ppm/°C
Scaling	through software		

Measurement circuit monitoring <sup>1</sup>	Over/underrange	Probe/lead short-circuit <sup>1</sup>	Probe/lead break
Thermocouple	•	-	•
Resistance thermometer	•	•	•
Voltage 0 – 1V 0 – 10V	•		-
Current 0 - 20mA 4 - 20mA	•	-	-

• = recognized - = not recognized

1. In the event of an error, the ouptuts move to defined levels (configurable as: 0%, 100%, -100%).

#### Logic inputs (max. 2 I/O modules, each with 5 inputs, and max. 2 logic modules, each with 11 inputs)

Floating contacts	with common reference potential,
	configurable for PLC level through internal solder links
PLC level	low = 0 to 6V, high = 13 to 30V

#### Relay outputs (max. 3 relay modules, each with 10 outputs, and max. 2 logic modules, each with 5 outputs)

Relay (relay module)	2 changeover contacts, 8 make contacts		
Relay (logic modules)	5 make contacts		
<ul> <li>contact rating</li> </ul>	3A at 250VAC, resistive load		
<ul> <li>contact life</li> </ul>	10 <sup>6</sup> operations at rated load between pole and make/break contact		
<ul> <li>– contact protection circuit</li> </ul>	Varistor S14K300		

#### **Analog outputs** (max. 1 I/O module with two outputs)

Voltage	
<ul> <li>output signals</li> </ul>	0 - 10V/2 - 10V, can be changed over in software
<ul> <li>load resistance</li> </ul>	$R_{load} \ge 500 \ \Omega$
Current	
<ul> <li>outputs signals</li> </ul>	0 - 20 mA / $4 - 20$ mA, can be changed over in software
<ul> <li>load resistance</li> </ul>	$R_{load} \le 450 \ \Omega$

#### Controller

Number	four
Controller type	single-setpoint controller,
	double-setpoint controller, modulating controller, proportional controller,
	proportional controller with integrated actuator driver
Controller structures	P/PD/PI/PID/I
A/D converter	resolution better than 14 bit
D/A converter	13 bit
Sampling time	500ms
Sampling time for logic formulae, with read-in and output of the signals	100ms

#### **Color display**

Resolution	320 x 240 pixels	
Size	5"	
Number of colors	27 colors	

## **Electrical data**

Supply voltage	110 — 240V AC -15/+10%, 48 — 63Hz		
(switchmode power supply)	20 — 30V AC/DC, 48 — 63Hz		
Power consumption	max. 44 VA, p.f. ≤ 0.7		
Data backup	EEPROM		
Electrical connection	at rear by screw terminals,		
	conductor cross-section up to 2.5 mm <sup>2</sup>		
	and ferrules (length: 10mm)		
Electrical safety	as per EN 61 010, Part 1		
	overvoltage category II, pollution degree 2		
Electromagnetic compatibility	to EN 61 326-1		
- interference emission	Class B		
- interference immunity	to industrial requirements		

## Housing

Housing type	plastic housing for panel mounting (indoor use) according to IEC 61554		
Dimensions in mm (for type)	700101/1, 700101/2,		
Bezel	315 x 171 (portrait)	171 x 315 (landscape)	
Mounting depth	103	103	
Panel cut-out	$138_0^{+1} \times 282_0^{+1.3}$	282 <sub>0</sub> <sup>+1</sup> x 138 <sub>0</sub> <sup>+1.3</sup>	
Ambient/storage temperature range	0 to +50°C / -40 to +70°C		
Climatic conditions	rel. humidity not exceeding 95% annual mean, no condensation		
Site altitude	up to 2000 m above sea level		
Operating position	any		
Protection	to EN 60 529,		
	front IP 67, rear IP 20		
Weight of minimal version (fully fitted)	approx. 1900 g (2300 g)		
Membrane keypad	Polyester membrane, protection: IP 67		
	resistant to normal cleaning agents and detergents		
Keys	Short-stroke keys with tactile feedback (click effect)		

### Setup interface (electrically isolated)

Interface type	RS422/RS485					
Protocol	always MODbus					
Baud rate	<b>9600</b> , 19200, 38400					
Device address	<b>1</b> — 255					
Minimum response time	0 — <b>500</b> ms					

## **Universal interface**

#### MODbus

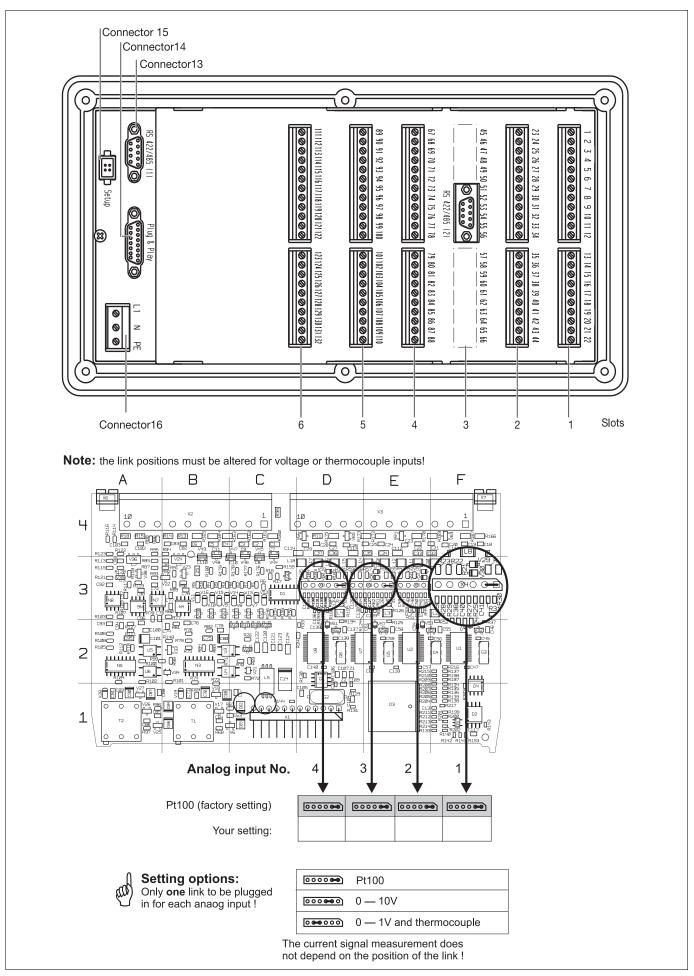
Interface type	RS422/RS485
Protocol	MODbus
Baud rate	<b>9600</b> , 19200, 38400
Device address	<b>1</b> – 255
Minimum response time	0 — <b>500</b> ms

#### Approvals / approval marks

approval mark	Testing agency	Certificate/ Inspection number	Inspection basics	Valid for	
c UL us	Underwriters Laboratories	20130925-E201387	UL 61010-1	all devices	

bold print = factory setting

## **Connection diagram**



## I/O module (in slot 1)

	Analog input No.	1	2			3	4	Symbol
	Thermocouple	1 + 3 -	4 + 6 -		7 + 9 -		10 + 12 -	↓ + -
$   \rightarrow $	Resistance thermometer	1 (a) 2 (b) 3 (c)	4 (a) 5 (b) 6 (c)		7 (a) 8 (b) 9 (c)		10(a) 11(b) 12(c)	(a) (b) (c)
	Current input 0(4) — 20mA	2 + 3-	5+ 6 -		8 + 9 -		11 + 12 -	$ \mathbf{I}_{\mathbf{x}} $
	Voltage 0(2) — 10V	1 + 3 -	4 + 6 -		7 + 9 -		10 + 12 -	
The anal	og inputs 1 and 2, 3 and 4, mu	ist be electrically isol	ated from on	e anoth	er!		1	
	Logic input No.	1	2	;	3	4	5	Symbol
$\bigcirc$	floating contact or PLC input: 24V DC	13 S (n.o. make) 18 P (common)	14 S 18 P	15 S 18 P		16 S 18 P	17 S 18 P	O S P
Ú,	LO level: 0 to 6V HI level: 13 to 30V	13 + 18 COM	14 + 18 COM	15 + 18 C0	M	16 + 18 COM	17 + 18 COM	+ COM
If PLC in	puts are used, then the supply	voltage for the logic	inputs must	be elec	trically	isolated from	the analog ir	iputs!
	Analog output No.		1			2		Symbol
$\ominus$	0(4) — 20mA 0(2) — 10V configurable	19 + 20 -			21 + 22 -			

## I/O module (in slot 2)

	Analog input No.	5	6		7	8	Symbol	
	Thermocouple	23 + 25 -	26 + 28 -	29 + 31 -		32 + 34 -		
$\odot$	Resistance thermometer	23(a) 24(b) 25(c)	26(a) 27(b) 28(c)	29(a 30(b 31(c	)	32(a) 33(b) 34(c)		
	Current input 0(4) — 20mA	24 + 25-	27 + 28 -	30 + 31 -		33 + 34 -		
	Voltage 0(2) — 10V	23 + 25 -	26 + 28 -	29 + 31 -	-	32 + 34 -		
he ana	log inputs 5 and 6, 7 and 8, m	nust be electrically	isolated from o	ne another!				
	Logic input No.	6	7	8	9	10	Symbol	
<b>A</b>	floating contact or PLC input: 24V DC	35 S 40 P	36 S 40 P	37 S 40 P	38 S 40 P	39 S 40 P	°° S P	
V	LO level: 0 to 6V HI level: 13 to 30V	35 + 40 COM	36 + 40 COM	37 + 40 COM	38 + 40 COM	39 + 40 COM	+ COM	

	FLC inputs are used, then the supply voltage for the logic inputs must be electrically isolated from the analog inputs:										
	Analog output No.	3	4	Symbol							
$\ominus$	0(4) — 20mA 0(2) — 10V (configurable)	41 + 42 -	43 + 44 -	0 0     + -							

## Logic module (in slot 3)

	Logic input No.	22	23	24	25	26	27	28	29	30	31	32	Symbol
	floating contact or PLC input: 24V DC	45 S 56 P	46 S 56 P	47 S 56 P	48 S 56 P	49 S 56 P	50 S 56 P	51 S 56 P	52 S 56 P	53 S 56 P	54 S 56 P	55 S 56 P	
Ð	LO level: 0 to 6V HI level: 13 to 30V	45 + 56 COM	46 + 56 COM	47 + 56 COM	48 + 56 COM	49 + 56 COM	50 + 56 COM	51 + 56 COM	52 + 56 COM	53 + 56 COM	54 + 56 COM	55 + 56 COM	S P 0 0     + COM
If PLC in	outs are used, then the supply	voltage	e for th	e logic	inputs	must k	be elec	trically	isolate	ed from	the an	alog in	puts!
	Relay output No.		31		3	32	3	33	3	34	3	5	Symbol
$\ominus$	3A 230V	57 P 58 S			59 P 60 S		61 P 62 S		63 P 64 S		65 P 66 S		

## Universal interface (in slot 3)

	Connection for	Assignment	PROFIBUS-DP	Symbol
	RS422 interface, electrically isolated	4 RxD (+) 9 RxD (-) 3 TxD (+) 8 TxD (-) 5 GND	8 A(+) 3 B(-) 6 VCC 5 GND 9 GND	
G	RS485 interface, electrically isolated	3 RxD/TxD A(+) 8 RxD/TxD B(-) 5 GND	i	<u>9 6</u>

### Relay module (in slot 4)

Relay output No.	1	2	3	4	5	Symbol
3A 230V	67 P 68 O 69 S	70 P 71 O 72 S	73 P 74 S	75 P 76 S	77 P 78 S	
Relay output No.	6	7	8	9	10	Symbol
3A 230V	79 P 80 S	81 P 82 S	83 P 84 S	85 P 86 S	87 P 88 S	

## Relay module (in slot 5)

	Relay output No.	11	12	13	14	15	Symbol
$\ominus$	3A 230 VA	89 P 90 O 91 S	92 P 93 O 94 S	95 P 96 S	97 P 98 S	99 P 100 S	
	Relay output No.	16	17	18	19	20	Symbol
	3A 230V	101 P 102 S	103 P 104 S	105 P 106 S	107 P 108 S	109 P 110 S	P S U U U

### Logic module (in slot 6)

	Logic input No.	11	12	13	14	15	16	17	18	19	20	21	Symbol
	floating contact	111 S	112 S	113 S	114 S	115 S	116 S	117 S	118 S	119 S	120 S	121 S	γγ
	or PLC input: 24V DC	122 P	122 P	122 P	122 P	122 P	122 P	122 P	122 P	122 P	122 P	122 P	S P
$\bigcirc$	LO level: 0 to 6V	111 +	112 +	113 +	114 +	115 +	116 +	117 +	118 +	119 +	120 +	121 +	ο ο
	HI level: 13 to 30V	122 COM	122 COM	122 COM	122 COM	122 COM	122 COM	122 COM	122 COM	122 COM	122 COM	122 COM	
													+ COM
If PLC in	puts are used, then the supply	voltage	e for th	e logic	inputs	must l	be elec	trically	isolate	ed from	the an	alog in	puts!
	Relay output No.		26		2	7	2	8	2	9	3	0	Symbol
	3A 230V	123 P			125 P		127 P		129 P		131 P		P S
$(\rightarrow)$		124 S			126 S		128 S		130 S		132 S		

## Relay module (in slot 6)

	Relay output No.	21	22	23	24	25	Symbol
$\ominus$	3A 230VA	111 P 112 O 113 S	114 P 115 O 116 S	117 P 118 S	119 P 120 S	121 P 122 S	
	Relay output No.	26	27	28	29	30	Symbol
	3A 230V	123 P 124 S	125 P 126 S	127 P 128 S	129 P 130 S	131 P 132 S	P S

#### Connector 13

	Teleservice, visualization	RS422	RS485	Symbol
	RS422/485 interface	4 RxD (+) 9 RxD (-)	8 RxD/TxD B(-) 3 RxD/TxD A(+)	
$\ominus$		3 TxD (+) 8 TxD (-)		
		5 GND	5 GND	

#### **Connector 14**

Connection for	Assignment	Symbol
Plug & Play interface		

#### **Connector 15**

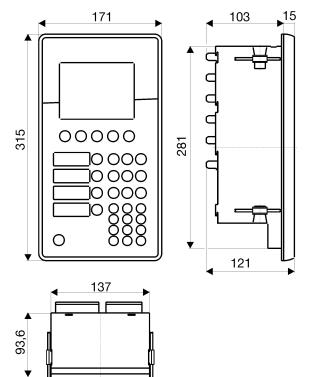
Connection for	Assignment	Symbol
Setup connector	PC interface with TTL/RS232 converter (This is not electrically the analog inputs, log the teleservice interfa	gic inputs, and

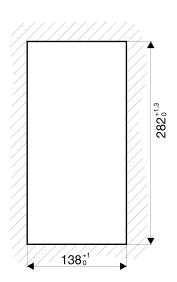
## **Connector 16**

Connection for	Assignment	Symbol
Supply voltage, as per nameplate	L1 phase/line N neutral PE protective earth	0 0 0       L1 N PE

## **Dimensions**

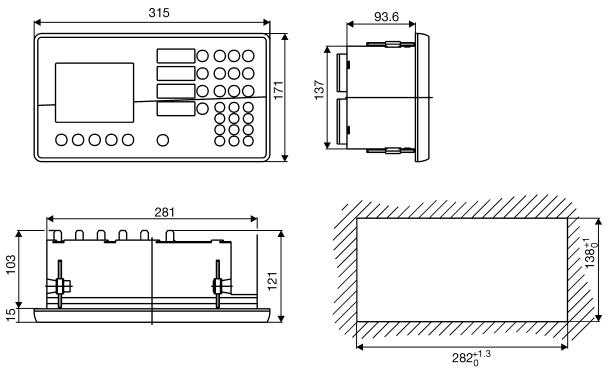
Type 700101/1, ... portrait format





Panel cut-out according to to IEC 61554

Type 700101/2, ... landscape format



Panel cut-out according to IEC 61554

Sales No.

70/00398298

70/00433789

70/00413524

# Order details: JUMO IMAGO F3000 process controlles for the meat processing industry

25       20 - 30V AC/DC, 48 - 63Hz         (5) Interface for teleservice and visualization         00       no interface         54       RS422/485 interface (MODbus slave, connector 13)         (6) Extra code         00       no extra code         211       Plug & Play memory	7	00101	JUI	10 IMAGO F	3000														
1       315 mm x 171 mm, pandicage format         2       171 mm x 315 mm, landscape format         8       standard, with factory settings         9       customized programming according to specification         1       Language for the configuration level         2       German         3       Encloh         3       Francing         4       Opciming according to specification         2       Injuit module         1       relay module: 10 relay outputs (finding contacts)         2       Injuit module         3       UP module: 4 analog inputs, 5 logic inputs for floating contacts, 2 analog outputs         4       logic module: 11 logic inputs for floating contacts, 5 relay outputs (make)         5       universal interface MODBus (electrically isolated)         7       100 module: 4 analog inputs, 5 logic inputs for floating contacts, 2 analog outputs         8       00 module: 4 analog inputs, 5 logic inputs for floating contacts         9       Logic module: 11 logic inputs for FLC level 2 analog outputs         10       rodity AG, -15/r10%, AB = 63Hz         10       rod			(2) Ba	sic type exte	nsions														
2       171 mm x 315mm, landscape format         Wersion       3         3       standard, with factory settings         9       customized programming according to specification         1       Language for the configuration level         2       English         5       Reach         1       German         2       English         1       Figure 1         2       Interval         2       Interval         1       Interval         2       Interval         2       Interval         2       Interval         3       Interval         4       Indig motility in analog inputs, 50 logic inputs for floating contacts, 2 analog outputs         4       Indig motility in analog inputs, 50 logic inputs for PLC level         5       Intriversal interface MODbus lefectically isolated)         7       I/O module: 4 analog inputs, 50 logic inputs for PLC level, 2 analog outputs         7       I/O module: 4 analog inputs, 50 logic inputs for PLC level, 2 analog outputs         6       Intervace for teleservice and visualization         0       no interface         5       Interface for teleservice and visualization         10       no			For	mat															
8       Version         8       standard, with factory settings         9       customized programming according to specification         1       German         2       English         3       English         3       Fright         3       English         4       To any according to specification         2       English         3       Fright         3       Fright         4       To explore         1       relay module: 10 relay outputs (R make, 2 changeover)         1       relay module: 4 analog inputs, 5 logic inputs for floating contacts, 2 analog outputs         4       Togic module: 11 logic inputs for floating contacts, 5 relay outputs (make)         5       universal interface MODbus (electrically isolated)         7       10 module: 4 analog inputs, 5 logic inputs for PLC level, 2 analog outputs         8       10 module: 4 analog inputs, 5 logic inputs for PLC level, 2 analog outputs         9       Logic module: 11 logic inputs for PLC level, 2 analog outputs         110 - 20/01 MCC, 157+10%, 48 - 63Hz         23       20 - 30 MCDC, 48 - 63Hz         24       25         25       20 - 50 MCDC, 48 - 63Hz         26       10 - 20/01 / 181 - 200100																			
8 standard, with factory settings 9 customized programming according to specification Language for the configuration level 1 German 2 English 3 French 5 Russian 9 customized programming according to specification 1 cards for inputs, outputs and interfaces 1 (2) (3) (4) (5) 2 (3) (4) (5) (6) 2 (3) (4) (5) (6) 3 (4) (5) (6) 3 (4) (5) (6) 3 (5) (10) (10) (10) (10) (10) (10) (10) (10	2				n, landscap	be forn	nat												
9         customized programming according to specification           1         Language for the configuration level           2         English           3         Franch           5         Russian           (3) Slot assignments         Image for the configuration level           2         English           3         Franch           1         relay module: 10 relay outputs (8 make, 2 changeover)           2         1           2         Input module: 4 analog inputs, 5 logic inputs for floating contacts. 2 analog outputs           3         100 module: 4 analog inputs, 5 logic inputs for floating contacts. 2 analog outputs           4         1           5         100 module: 4 analog inputs, 5 logic inputs for PLC level           7         100 module: 4 analog inputs, 5 logic inputs for PLC level           8         10           9         Logic module: 11 logic inputs for PLC level           10         - 200 vAC/DC, 48           6         - 300 vAC/DC, 48           10         - 200 vAC/DC, 48           11         - 200 vAC/DC, 48           10	8				ctorv settin	nas													
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2       English 3       French Russian         5       French Russian       Stot assignments Plug-in cards for inputs, outputs and interfaces       Image: Stot Number         1       relay module: 10 relay outputs (8 make, 2 changeover)       Image: Stot Aumber       Image: Stot Aumber         2       10 relay outputs (8 make, 2 changeover)       Image: Stot Aumber       Image: Stot Aumber         3       100 module: 4 analog inputs, 5 logic inputs for floating contacts. 2 analog outputs       X       X       Image: Stot Aumber         3       100 module: 4 analog inputs, 5 logic inputs for floating contacts. 5 relay outputs (make)       Image: Stot Aumber       Image: Stot Aumber         6       Inviversal interface MODEUS (Del (etrical) isolated)       Image: Stot Aumber       Image: Stot Aumber         7       100 module: 4 analog inputs, 5 logic inputs for PLC level       2 analog outputs       Image: Stot Aumber         9       Logic module: 11 logic inputs for PLC level, 5 relay outputs (make)       Image: Stot Aumber       Image: Stot Aumber         100       mo entrace       10 - 240V AC, -15/+10%, 48 - 63Hz       Image: Stot Aumber       Image: Stot Aumber         2       2       2       30 V AC/DC, 48 - 63Hz       Image: Stot Aumber       Image: Stot Aumber         110       -240V AC, -15/+10%, 48 - 63Hz       -       -       /			Lar	guage for th															
3       French         5       Russian         (3) Slot assignments       Slot Number         (1) Felly module: 10 felly outputs (8 make, 2 changeover)       2       1																			
5         Russian         Stot Number           Code         Plug-tn cards for inputs, outputs and interfaces         Image: Stot Number           1         relay module: 10 relay outputs (8 make, 2 changeover)         2         1 <th1< th="">         1         1         <th1< th=""></th1<></th1<>																			
(3) Site assignments         Sole Number           imminum assignment         imminum assignment         imminum assignment           imminum assignment         imminum assignment         imminum assignment           imput module: 10 relay outputs (6 make, 2 changeover)         imminum assignment         imminum assignment           imput module: 4 analog inputs, 5 logic inputs for floating contacts, 2 analog outputs         imminum assignment         imminum assignment           imput module: 4 analog inputs, 5 logic inputs for floating contacts, 2 analog outputs         imminum assignment         imminum assignment           imput module: 4 analog inputs, 5 logic inputs for PLC level, 2 analog outputs         imminum assignment         imminum assignment           imminum assignment         imminum assignment         imminum assignment         imminum assignment           imminum assignment         ingle notable: 4 analog inputs, 5 logic inputs for PLC level, 2 analog outputs         imminum assignment           imminum assignment         imminum assignment         imminum assignment         imminum assignment           imminum assignment         imminum assignment         imminum assignment         imminum assignment           imminum assignment         imminum assignment         imminum assignment         imminum assignment           imminum assignment         imminum assignment         imminum assignment	_																		
code       Plug-in cards for inputs, outputs and interfaces       1       2       0       0       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1       1       0       1 <td1< td="">       1       1</td1<>					te									1	SI	lot N	umbe	ər	
minimum assignment       2       0       0       1       0       1       1         1       relay module: 4 analog inputs, 5 logic inputs for floating contacts, 2 analog outputs       X       X       -       -       -       -       -       -       X       X       -       -       -       X       X       -		Code				utputs	s and inte	erface	S					1					
2         Input module: 4 analog inputs, 5 logic inputs for floating contacts, 2 analog outputs         X         X         I <thi< th="">         I&lt;</thi<>			mir	imum assigni	ment									2	0	0	1	0	
3         U°o module: 4 analog inputs, 5 logic inputs for floating contacts, 5 relay outputs (make)         X         X         -         <		1														-		Х	
4         Logic module: 11 logic inputs for floating contacts, 5 relay outputs (make)         -         -         X         -         -         -         -         -         -         -         -         -         -         -         -         -         -																-		-	
5         universal interface PROFIBUS-DP (electrically isolated)         -												ipuis							
6         universal interface PROFIBUS-DP (electrically isolated)         -         -         X         -           7         // Ornodule: 4 analog inputs, 5 logic inputs for PLC level, 2 analog outputs         X         X         -         -           9         Logic module: 11 logic inputs for PLC level, 5 relay outputs (make)         X         X         - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Jacpulo (I</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										Jacpulo (I									
8         I/O module: 4 analog inputs, 5 logic inputs for PLC level, 2 analog outputs         X         X         -			uni	ersal interfac	e PROFIBU	JŚ-DP	o (electrica	ally iso	lated)					-			-	-	
9         Logic module: 11 logic inputs for PLC level, 5 relay outputs (make)         - <th< td=""><td></td><td>-</td><td>I/O</td><td>module: 4 an</td><td>alog inputs</td><td>s, 5 log</td><td>gic inputs</td><td>for PL</td><td>C level</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td></th<>		-	I/O	module: 4 an	alog inputs	s, 5 log	gic inputs	for PL	C level							-	-	-	
(4) Supply voltage       - assignment not possible         23       110 - 240V AC, -15/+10 %, 48 - 63Hz         25       20 - 30V AC/DC, 48 - 63Hz         25       20 - 30V AC/DC, 48 - 63Hz         (5) Interface for teleservice and visualization       - interface         54       RS422/485 interface (MODbus slave, connector 13)         (6) Extra code       /         000       no extra code         211       Plug & Play memory         213       recording function         Sales No.         able from stock:         ymodule: 10 relay outputs (8 make, 2 changeover)         tmodule: 4 analog inputs, 5 logic inputs       70/0398352         reduct: 4 nalog inputs, 5 logic inputs       70/0398353         reservice and visualization, RS422/485 (connector 13, MODbus slave, Code 54)       70/00398353         reget time approx, 2 weeks:       70/00411250         reservice and visualization, RS422/485 (connector 13, MODbus slave, Code 54)         routputs for mathematica provide the full span         routputs (1) routputs, 5 relay outputs (make)         routputs (2) routputs (make)         routputs (2) routputs (make)         routputs (2) routputs (make)         routputs (											utputs				Х	-	-	-	
X assignment possible       0 free         23       110 - 240V AC, -157+10%, 48 - 63Hz         25       20 - 30V AC/DC, 48 - 63Hz         (5) Interface for teleservice and visualization       0         00       no interface         54       RS422/485 interface (MODbus slave, connector 13)         (6) Extra code       0         000       no extra code         211       Plug & Play memory         213       recording function         gene acades for retrofitting/converting         alles No.         able from stock:         T/000398349         T/000398345         T/000398349         T/000398349         T/000398349         T/000398349         T/000398349         T/000398352         romodule: 4 analog inputs, 5 logic inputs, 2 analog outputs         T/000398352         romodule: 4 analog inputs, 5 logic inputs, 2 analog outputs         T/000398353         romodule: 4 analog inputs, 5 logic inputs, 2 analog outputs         romodule: 4 analog inputs, 5 logic inputs, 2 analog outputs         romodule:		9	LOQ	ic module: 1	i logic inpu	its for I	PLC level	I, 5 rela	ay output	ts (make)					-				
(4) Supply voltage       Tactory-set         23       110 - 240V AC, -15/+10%, 48 - 63Hz         25       20 - 30V AC/DC, 48 - 63Hz         (6) Interface for teleservice and visualization         00       no interface         54       RS422/485 interface (MODbus slave, connector 13)         (6) Extra code         000       no extra code         211       Plug & Play memory         213       recording function         Sales No.         Interface for teleservice and visualization         (1) (2) (3) (4) (5) (6)         er code         /       -         (1) (2) (3) (4) (5) (6)         er code         /       -         (1) (2) (3) (4) (5) (6)         er code         /       -         er code       /       -         (700101)       181 - 200100 - 23 - 00 )       000         Sales No.         lable from stock:         y module: 10 relay outputs (8 make, 2 changeover)       70/00398351         rodule: 4 analog inputs, 5 logic inputs, 2 analog outputs       70/00398353         face for teleservice and visualization, RS422/485 (connec																			
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213       recording function         (1)       (2)       (3)       (4)       (5)       (6)         ler code       /       -       -       /         ler example       700101       181       -       200100       -       23       -       00       /       000         ug-in cards for retrofitting/converting       Sales No.       Sales No.       Sales No.         ilable from stock:       70/00398349       70/00398351       70/00398351         ay module: 4 analog inputs, 5 logic inputs       70/00398352       70/00398352         ic module: 11 logic inputs, 5 relay outputs (finake)       70/00398353       70/00398353         rface for teleservice and visualization, RS422/485 (connector 13, MODbus slave, Code 54)       70/00411250         versal interface MODbus (slot 3)       70/00411250       70/00411250         versal interface for PROFIBUS-DP (slot 3)       70/00411248       70/00430665         ic module for PLC level       70/00398294       70/00398294         crossories - Price Sheet 70.9770       Sales No.       70/00398294         gram editor, multilingual       70/00398294       70/00398294         up program and program editor, multilingual       70/00398294       70/00398294         up program and program editor, mul	25 00 54		110 20 (5) Inte no RS- (6) Ext	- 240V AC, - 30V AC/DO erface for tele nterface 122/485 interf ra code	C, 48 — 63 eservice a	Hz nd vis	alizatio		13)					Ta	actor	y-set	Ι		
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Her code       /       -       -       /         Her example       700101       181       -       200100       -       23       -       00       /       000         Age-in Cards for retrofitting/converting       Sales No.       Sales No.         itable from stock:       70/00398349       70/00398351         ay module: 10 relay outputs (8 make, 2 changeover)       70/00398351       70/00398352         it module: 4 analog inputs, 5 logic inputs, 2 analog outputs       70/00398352       70/00398353         ic module: 11 logic inputs, 5 relay outputs (make)       70/00398353       70/00398353         rface for teleservice and visualization, RS422/485 (connector 13, MODbus slave, Code 54)       70/00398353         very time approx. 2 weeks:       70/00411250         versal interface for PROFIBUS-DP (slot 3)       70/00411250         versal interface for PROFIBUS-DP (slot 3)       70/00413065         ic module for PLC level       70/00433064         Precessories - Price Sheet 70.9770       Sales No.         gram editor, multilingual       70/00398294         up program and program editor, multilingual       70/00398296         up program, program editor and teleservice, multilingual       70/00398296         up program editor and teleservice, multilingual       70/00398297	25 00 54 000 211		110 20 (5) Inte no RS- (6) Ext no Plu	— 240V AC, — 30V AC/DO erface for tel nterface 422/485 interface ra code extra code g & Play mem	C, 48 — 63 eservice a face (MODb nory	Hz nd vis	alizatio		13)					Ta	actor	y-set	ſ		
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### Accessories

Plug & Play memory Enable recording function Mounting brackets for installation in LPF-200 / MPF-88 front panel cut-out