

INTRA-AUTOMATION

MESS- UND REGELINSTRUMENTE / MEASUREMENT AND CONTROL



TÜV Rheinland®
CERT
ISO 9001

Controller IntraCon Series IA-RE22



Technical Information

03/2011



Accessories

THE EXPERT IN LEVEL AND FLOW

Intra-Automation
Technical Information
03/2011

Technical details subject to be changed without notice.

For comments regarding this brochure, please contact:
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IA-RE22 IntraCon Controller

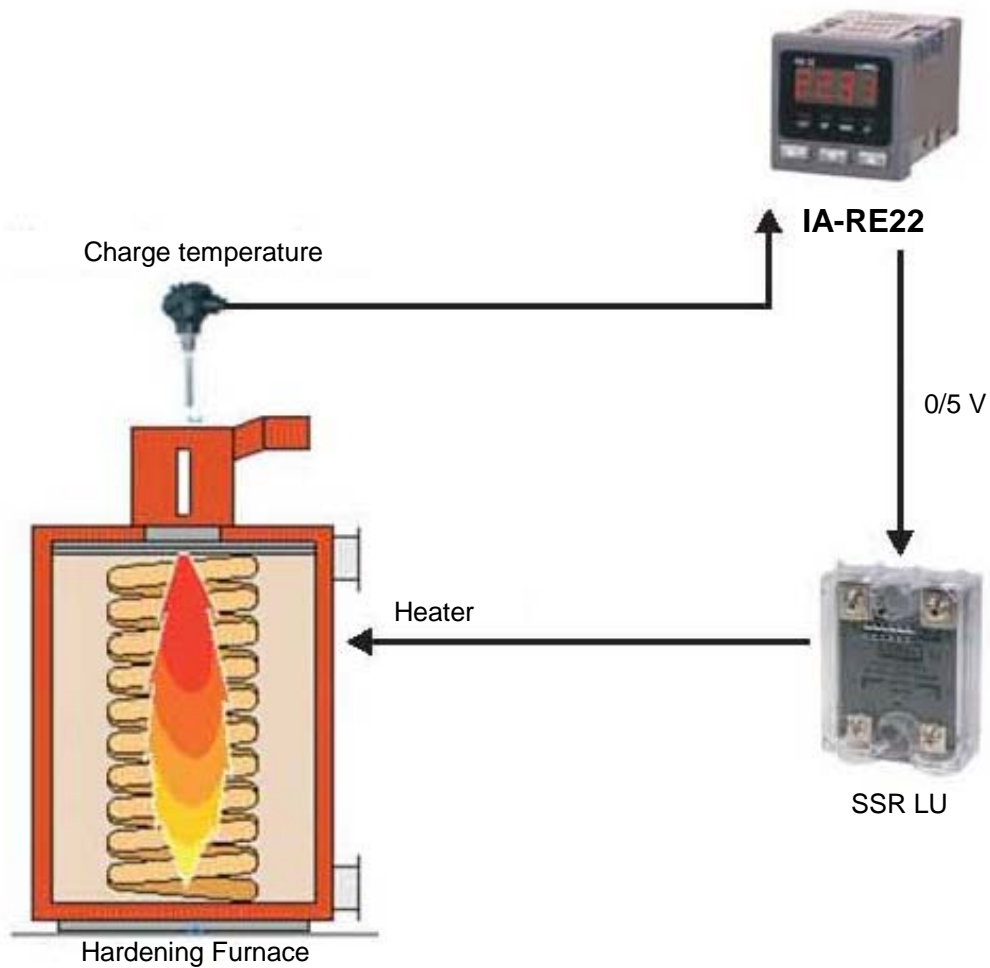
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1 Features

- ◆ Universal input for RTD and TC sensors or standard signals from transducers
- ◆ Relay output or binary 0/5 V for relay of SSR type
- ◆ "Soft-Start"-function
- ◆ Manual operating option
- ◆ Control: PID with auto-tuning, on/off

2 Application example



Temperature control in a hardening furnace

3 Technical details

Inputs			
Kind of input	Designation	Range	Error
Pt100	Pt100	-199...850 °C	0.2 %
Pt1000	Pt1000	-199...850 °C	0.2 %
Fe-CuNi	J	-100...1200 °C	0.3 %
Cu-CuNi	T	-100...400 °C	0.3 %
NiCr-NiAl	K	-100...1372 °C	0.3 %
PtRh10-Pt	S	0...1767 °C	0.5 %
PtRh13-Pt	R	0...1767 °C	0.5 %
PtRh30-PtRh6	B	0...1820 °C	0.5 %*
NiCr-CuNi	E	-100...999 °C	0.3%
NiCrSi-NiSi	N	-100...1300 °C	0.3 %
NiCr-CuNi (GOST)	L	-100...800 °C	0.3 %
Current	I	0/4...20 mA	0.2 % ± 1 digit
Voltage	U	0/5...10 V	0.2 % ± 1 digit

Outputs		
Kind of output	Properties	Remarks
Relay output	voltageless NO contacts, load capacity 5 A, 250 V AC	
Voltageless binary output	load capacity 5 V	Resistance limiting the current: 66 Ω

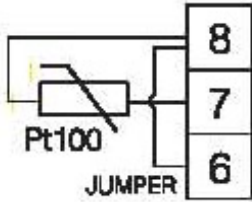
External features		
Readout field	LED	10 mm, 4 digits
Weight	0.25 kg	
Overall dimensions	48 x 48 x 93 mm	
Protection:	IP65 (front side)	IP20 (terminal side)

Rated operating conditions		
Supply	230 / 110 / 24 V AC ± 10 %	Frequency: 50...60 Hz
Temperature	Ambient: 0...23...50 °C	Storage: -20...70 °C
Relative Humidity	< 85 %	without condensation
Operating position	any	
External magnetic field	0...400 A/m	

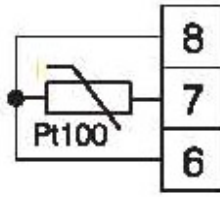
Safety and compatibility conditions		
Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Pollution grade	2	Acc. to EN 61010-1
Installation category	III	
Maximal phase-to-earth working voltage	for the supply circuit, output: 300 V	
	for input circuits: 50 V	
Altitude above sea level	< 2000 m	

4 Connecting diagrams

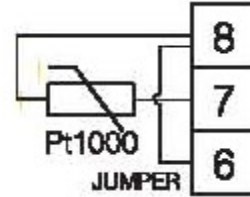
Connection of input signals:



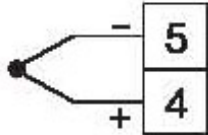
resistance thermometer Pt100 in a 2-wire system



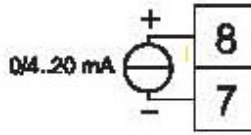
resistance thermometer Pt100 in a 3-wire system



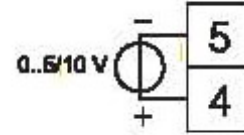
resistance thermometer Pt1000



thermocouple

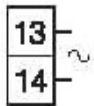


current input 0/4...20 mA

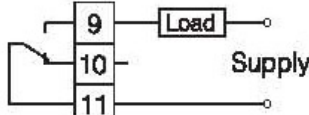


voltage input 0...5/10 V

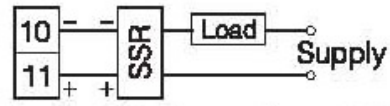
Connection of supply and load circuit



power supply



output-relay



output - binary voltage or SSR control

5 Order codes

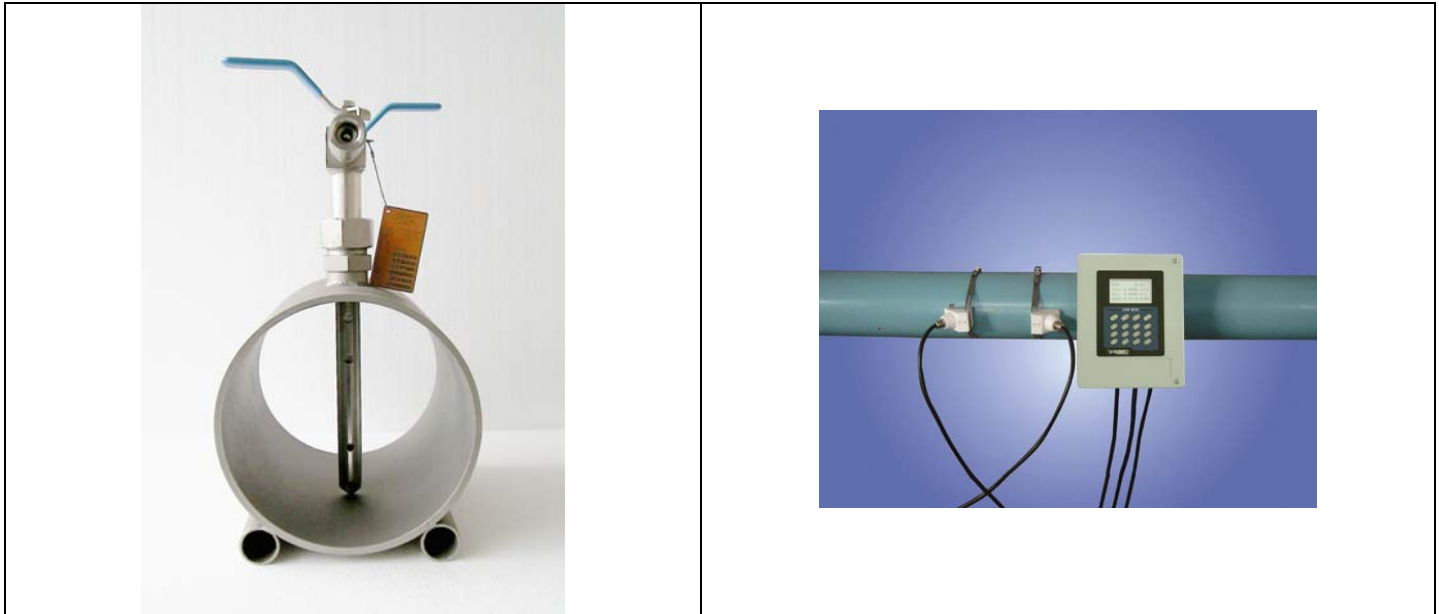
Code	Description
IA-RE22	Controller
Input	
1	universal for RTD and TC sensors
2	universal linear: - current: 0/4...20 mA - voltage: 0...5/10 V
X	as per order*
Output	
1	relay
2	binary 0/5 V for SSR control
X	as per order*
Power supply	
1	230 V 50/60 Hz
2	110 V 50/60 Hz
3	24 V 50/60 Hz
X	as per order*
Version	
00	standard
XX	custom-made
Certification	
8	without additional quality inspection certificate
7	with additional quality inspection certificate
X	on request*

IA-RE22

*Please contact manufacturer

Besides the products covered by this brochure, Intra-Automation GmbH also manufactures other high-quality and high precision instruments for industrial measurement tasks. For more information, please contact us (contact details on the backside of this brochure).

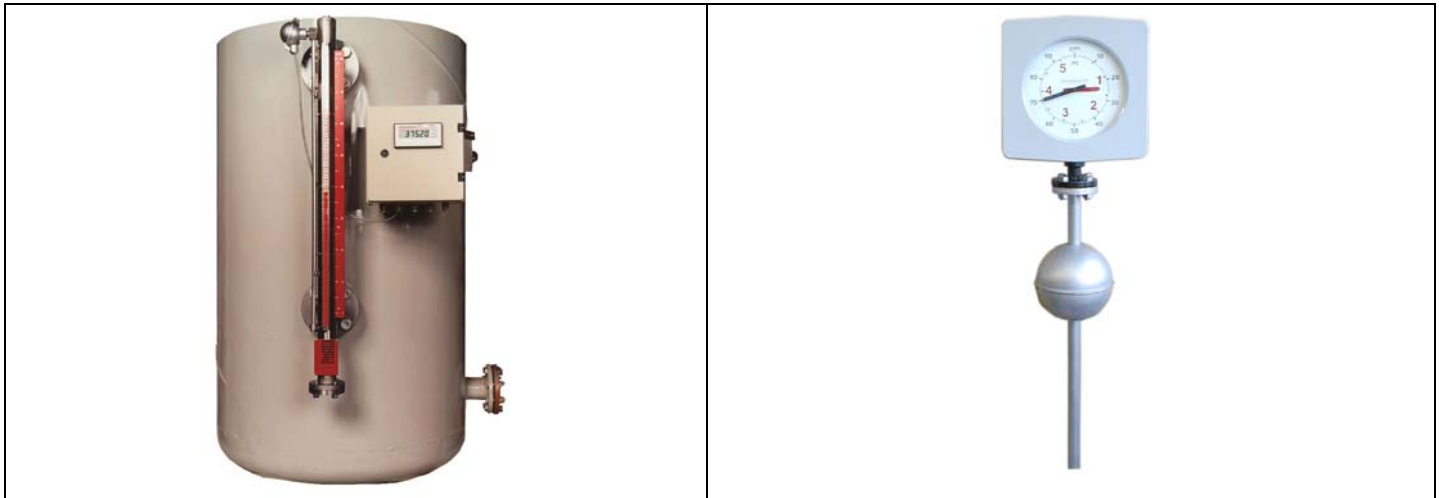
Flow measurement



Itabar®-Flow Sensor

IntraSonic IS210 Ultrasonic Flow Meter

Level measurement



ITA-mag. Level Gauge

MAGLINK Level Indicator

Other Measurement Tasks:



DigiFlow Flow and Level Computers

IntraCon Digital Controllers

IntraDigit Digital Indicators / Meters



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