

## PRODUCT DATA SHEET

Standing: 2023-02-15

LAUDA Integral IN 8 XTW Process thermostat  
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz  
Part Number: L002891

### Features

- High-temperature process thermostat for dynamic temperature control within external circuits
- Coloured TFT display for simultaneous indication of actual & set values and graphic illustration of the temperature profile
- Clear text menu navigation, six selectable languages DE, EN, FR, ES, IT, RU
- Management of heat transfer liquids with stored properties
- Easy input via cursor and soft keys. Additional Tmax key for overtemperature protection
- SelfCheck Assistant for system diagnosis
- Fully electronic continuous controller with PID action for internal & external control
- Self adapt function for determination of control parameters
- PowerAdapt system for the use of the maximum possible amount of heat permitted by the power supply system
- Low-level and adjustable over-temperature protection with acoustic alarm for use with flammable and non-flammable liquids
- Powerful LAUDA Variopump (pressure pump) with 8 selectable output levels or control of outflow pressure
- USB and Ethernet interface equipped as standard
- Port for external Pt100 integrated, second external Pt100 feasible via interface module
- Remote fault indication through floating contact
- Option for upgrading up to 2 additional interfaces (RS 232/485, Profibus, analogue, contact or EtherCAT module)
- Integrated and adjustable bypass
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- Digital display of pump pressure
- Integrated web server for browser based operation in local area networks via PC, tablet or smart phone, secure data transfer due to authentication procedure and encryption
- Water cooled system
- Cooling water supply necessary during operation



Reserve technical changes

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Geschäftsführer:  
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

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Working temperature min.  
25 °C



Working temperature max.  
320 °C

## Technical Features

Working temperature range	25 ... 320 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.1 ± K
Heater power max.	8 kW
Power consumption max.	9 kW
Current max.	13.5 A
Pump Pressure max.	3,1 bar
Pump flow rate max. (pressure)	60 L/min
In / Outlet connection thread (outside)	M30 x 1,5
Inlet/outlet hose size	3/4"
Filling volume min.	3.6 L
Filling volume max.	9.8 L
Water cooling connection thread (outside)	3/4 "
Recommended cooling water temperature	15 °C
Cooling water flow rate	11 L/min
Pressure difference cooling water min.	3 bar
Maximal pressure cooling water	10 bar
Overall dimensions (WxDxH)	430 x 550 x 760 mm
Weight	85 kg
Noise level	52 dB(A)
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	Power cord with plug (NEMA L16-20P twist lock; 20 A)

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
300 °C	8	Thermal oil	17 kW	17 kW
200 °C	8	Thermal oil	17 kW	17 kW
150 °C	8	Thermal oil	17 kW	17 kW
100 °C	8	Thermal oil	10 kW	10 kW
50 °C	8	Thermal oil	2 kW	2 kW

### Standard accessories

- 2 nipples 1/2" with screw cap G3/4 for cooling water

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