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Data Sheet

August 15, 2026

HYDAC / HYCON

Hydac / Hycon UBS 2111 Control Amplifier

Hydac Hycon UBS 2111 Proportional Valve Control Amplifier The Hydac/Hycon UBS 2111 is a slot-in control amplifier for proportional magnets. OEM UBS 2111 descriptions specify differential input matching, four digitally polled individually adjustable control signals with LEDs, digital time-range switching for ramps, relay outputs for ramp-zero and zero control signal, compact low-loss output stages, and LED indicators whose intensity tracks solenoid output current. It drives proportional directional, pressure, and flow valves plus proportional-solenoid pumps. Part listings include UBS2111-1100 / 2111-1110 card builds. The Hydac/Hycon UBS 2111 is a slot-in control amplifier for proportional magnets. OEM UBS 2111 descriptions specify differential input matching, four digitally polled individually adjustable control signals with LEDs, digital time-range switching for ramps, relay outputs for ramp-zero and zero control signal, compact low-loss output stages, and LED indicators whose intensity tracks solenoid output current. It drives proportional directional, pressure, and flow valves plus proportional-solenoid pumps. Part listings include UBS2111-1100 / 2111-1110 card builds. Proportional hydraulic valve and pump drive from analog setpoints in industrial and test stands.

**MODEL****Hydac / Hycon
UBS 2111****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****UBS 2111****LISTING**<https://aumictechlabs.com/products/ubs-2111-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Hydac/Hycon UBS 2111 is a control amplifier for proportional hydraulic valve and actuator command in industrial systems requiring high accuracy and reliable performance. This compact module provides differential input signal conditioning, four individually adjustable control channels with LED indicators, and proportionally controlled solenoid outputs. Each amplifier operates independently on 24V supply and mounts directly to standard support rails, enabling modular system expansion through compatible signal adjustment modules and additional functional cards.

Technical Specifications

Power Supply: 24V DC per module

Input: Differential input for external control signal matching

Output Stages: Compact, low-loss design

Control Channels: Four digitally polled inputs, individually adjustable

Potentiometer Adjustments: Maximum output current (IM), jump current (IS), base current (IB), zero point adjustment

Ramp Functions: Digital switching of time ranges

Output Indicators: LED display for solenoid output currents with proportional light intensity; relay output for ramp zero and zero control signal indication

Key Features

Proportional solenoid current control for directional valves, pressure control valves, and flow control valves

Compatible with proportional magnet-actuated pumps and regulation devices

Four independent control signal inputs with individual LED status indication

Relay output for system monitoring and fault signaling

Modular design supports system scaling and customization

Latchable mounting to top-hat or G-profile rails

Typical Applications

Proportional directional valve control

Pressure and flow regulation in hydraulic systems

Proportional solenoid pump command

Multi-axis hydraulic actuation systems

Compatibility & Integration

The UBS 2111 integrates into modular hydraulic control architectures through a wide selection of additional functional cards. Signal adjustment modules including the EHS 2092 and EHS 2042 provide galvanic and spatial isolation between industrial control signals and the amplifier inputs, enabling flexible system configuration across diverse applications.

UBS2111 Characteristics / Specifications

PARAMETER	VALUE
Model	UBS 2111
Instrument Type	Proportional magnet control amplifier
Form Factor	slot-in card
Command Channels	4 digitally polled, individually adjustable
Command Indicators	LED per command
Input Type	differential
Ramp Control	digital switching of time ranges
Relay Outputs	ramp zero and zero control signal
Output Stage	compact low-loss
Current Indicators	LEDs with intensity proportional to solenoid current
Valve Classes	proportional directional, pressure, and flow
Pump Class	proportional solenoid actuated pumps
Related Builds	UBS2111-1100, 2111-1110
Manufacturer	Hydac Hycon
Literature	Hydac/Hycon UBS 2111 control amplifier listings
Family	Hycon UBS 2111 amplifiers
Brand Lineage	Hycon Hydac
System Role	proportional valve amplifier
Control Class	analog setpoint to PWM/current class solenoid drive
Slot Class	Eurocard slot-in amplifier
Magnet Class	proportional solenoids
Add On Cards	additional cards for rpm with tachogenerator and position loops as stated on UBS 2111 system pages
Operating Mode	open-loop proportional plus documented closed-loop add-on cards
Documentation Type	OEM UBS 2111 listing
Application Class	hydraulic proportional control

PARAMETER	VALUE
Vendor Path	Hydac Hycon
Year Class	UBS 2111 slot-in family

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

Feature and identity rows from Hydac/Hycon UBS 2111 listings (4 commands, differential input, digital ramps, relay zero, current LEDs). Supply voltage, solenoid current, and PWM frequency are on the UBS 2111 datasheet/manual pages.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.