

Item	Qty	Description of products and services	Price per unit	Amount
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		<p><b>Fan Coil Controller, 0-10 V, 3-stage, manual Operation, MDRC</b></p> <p>For the control of Fan Coil Units with heating and cooling applications. 2 independent analog valve outputs (0 ... 10V), fan control via 3 relays, additional relay (16 A) for electrical heater and 4 inputs for room sensors.</p> <ul style="list-style-type: none"> <li>- Device diagnostics with free of charge PC-Software</li> <li>- Device is supplied via KNX and needs no additional power supply</li> <li>- Integrated controller for room temperature control</li> <li>- 4 Inputs for room sensors (Temperature sensor (resistor), window contact, dew point sensor, binary signal)</li> <li>- Connection facility for analog room control unit</li> <li>- Control of 2 0 ... 10 V Valve drive</li> <li>- Control of a 6-way Valve</li> <li>- Control of a multilevel fan via 3 relays</li> <li>- Control of an electrical heater via 1 additional relay</li> </ul> <p>Functionality of the application program:</p> <ul style="list-style-type: none"> <li>- Application based configuration und selection of the controller</li> <li>- Use with integrated controller or as normal actuator</li> <li>- Controller for the control of heating and cooling applications with basic and additional stage</li> <li>- Forced operation of the outputs</li> <li>- Cyclical monitoring of the input values</li> <li>- Direct usage of the connected sensors for the room temperature control</li> <li>- Free configuration of the controller possible</li> <li>- Integrated temperature set point manager</li> <li>- Overload/Short circuit detection of the valve outputs</li> <li>- Mode of operation of the valve drive (normally closed/normally opened) configurable</li> <li>- Parameterization for use with 6-way valve</li> <li>- Adaption of the characteristic curve of the valve for 6-way valves</li> <li>- Automated valve purge</li> <li>- Fan control with step switch or change over</li> <li>- Fan speed limitations</li> <li>- Fan speed automatic in dependence of the valve control value</li> <li>- Start up and follow up behavior of the fan</li> <li>- Direct control of the additional relay output by the internal controller</li> </ul> <p>Technical data:</p> <p>Inputs: 4 independent inputs Scanning current: 1 mA Supported temperature sensors: PT100, PT1000, NTC (10k and 20k), KTY (various types), NI 1000</p> <p>Valve outputs: 2 analog outputs (0 ... 10 V DC) Fan output: 3 relay outputs, each 5 A Switching voltage: 250 V AC</p> <p>Additional relay: 1 relay output 16 A (resistive load) Switching voltage: 250 V AC</p> <p>Displaying elements:</p> <ul style="list-style-type: none"> <li>1 LED per input for status display</li> <li>2 LED for position indication of the valve outputs</li> <li>2 LED for displaying of the active valve and fault indication</li> <li>3 LED for displaying the fan speed</li> <li>1 LED for displaying the status of the additional relay</li> <li>1 LED for displaying the status of the manual operation</li> </ul> <p>Manual operation:</p> <ul style="list-style-type: none"> <li>1 push button for selecting the valve output</li> <li>2 push buttons for opening/closing the selected valve</li> <li>1 push button for switching of the fan speed</li> <li>1 push button for switching of the additional relay</li> <li>1 push button for activating/deactivating the manual operation</li> </ul>	Carry:	
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		<p><b>Fan Coil Controller, 0-10 V, 3-stage, manual Operation, MDRC</b></p> <p>Connections: screw terminal, universal head 0.2...6 mm<sup>2</sup> single core 0.2...4 mm<sup>2</sup> fine stranded</p> <p>KNX: screwless bus connection terminal</p> <p>Housing material: Plastic, halogen free flammability V-0 as per UL94</p> <p>Protection class: IP 20, DIN EN 60 529</p> <p>Installation: on 35 mm mounting rail to EN 60 715 without tools; removable from group</p> <p>Mounting position: any</p> <p>Ambient temperature: -5 °C...+45 °C</p> <p>Width: 6 space units à 17.5 mm</p> <p>Dimensions (H x B x T): 90 x 105 x 63.5 mm</p> <p>Delivery mounting incl. accessories:</p> <p>Labor:</p> <p>Manufacturer: ABB STOTZ-KONTAKT</p> <p><b>Type:</b> <b>FCC/S 1.2.2.1</b> or equivalent</p> <p>Material:..... Labor:.....</p>	Carry:	
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**FCC/S 1.2.2.1**

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