

FIELD DEVICES



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Honeywell is building a smarter, safer, and more sustainable world. That's the Power of Connected. That's the Power of Honeywell.

We are Honeywell.

With a history dating back to 1885 Honeywell is a Fortune 100 company that invents and manufactures technologies to address some of the world's toughest challenges linked to global macro-trends such as energy efficiency, clean energy generation, safety and security, globalization and customer productivity. A recognized world leader in energy savings and comfort control with approximately 132,000 employees worldwide, including more than 22,000 engineers and scientists, we have an

unrelenting focus on performance, quality, delivery, value and technology in everything we make and do.

Honeywell's ability to continually improve comes from successfully achieving two seemingly competing tasks at once – productivity and growth. Our global processes – or Enablers – are Honeywell's core internal business processes that drive efficiency and service quality. Enablers bring world-class products and services to market faster and more cost-effectively for our customers.



Fortune 100
Company



131,000 Employees
Worldwide



22,000 Engineers
and Scientists



Why Honeywell?

From our innovative approach to product design and delivery to technically advanced manufacturing and installation capabilities, our aim is to apply our many years of experience in building environments of all sizes.

Honeywell Operating Systems (HOS) and Velocity Product Development processes (VPD) drive continuous sustainable improvement in our manufacturing processes and product design & development cycles that helps us deliver quality products faster to the market.

WE ARE PROUD TO SAY THAT



We provide customer-centric solutions which are easy to use and install for different types of users



Our products have modern and smart designs that meet functionality, quality, safety and reliability



We have a wide distribution/channel partner network backed by a strong sales team



We invest in our technology centers, where people and technology work together on innovative solutions to deliver unmatched value to our customers

Why are we different?

At Honeywell, we can draw on more than **25 years** of combined expertise in the field of management and control solutions for **air, water, gas, electricity** and **energy utilities** for any size and type of application:

With more than **30,000 patents** or patents pending worldwide, we generate innovative, world-class results. Our teams typically have members from every level of the organisation focused on improving processes to first understanding our customers' needs, then meeting – and even exceeding – their expectations.

Honeywell

THE POWER OF **CONNECTED**



STRATEGIC BUSINESS GROUPS (SBGS)



Aerospace

Honeywell Aerospace mechanical and electrical product offerings are used today on virtually every commercial and defense related aircraft platform. The division invents and integrates thousands of products and services that deliver safe, efficient, productive and comfortable experiences worldwide.



Safety and Productivity Solutions

Honeywell Safety and Productivity solution improves enterprise performance and worker safety and productivity with our scanning and mobile computers, software, warehouse automation solutions, and personal protective equipment.



Transportation Systems

Honeywell Transportation Systems provides world-class technologies and solutions to vehicle manufacturers, their suppliers and consumers. Our technologies enhance the performance and efficiency of passenger and commercial vehicles worldwide.



Homes and Building Technologies

Honeywell environmental controls, life safety, security, sensing, scanning, and mobility products, as well as building and process solutions, are at work in homes, buildings, industrial facilities, and public and private utilities around the world.



**STRATEGIC BUSINESS UNITS (SBUS)
HOMES AND BUILDING TECHNOLOGIES**

HBT Buildings: Fire, Security, PAVA & Building Management System

**HBT BUILDINGS BMS LINE OF
BUSINESS (LOBS)**

Building Controls: Building Energy, Management Systems, Hotel Room Automation, Precise Airflow, Control Industrial Pressure Control and Home Control

Field Devices: AHU Valves, Actuators, Commercial Valves, Damper Actuators, FCU Valves and Actuators, Pressure Independent Control Valves, Sensors and Controllers, Thermostats.

COMMERCIAL VALVES

Forged Brass Ball Valve

BA-HIPL SERIES

Forged brass body, full port design, BSP Internal threads, Chrome plated Brass Ball

Nominal Pressure: PN16

Available Sizes: 15 mm, 20 mm, 25 mm, 32 mm, 40 mm, 50 mm, 65 mm



Dual Plate Check Valve

BSV4-CWD SERIES

Cast iron / Ductile iron body, DI/SS disc, water and natural liquid application

Nominal Pressure: PN16, PN25

Available in sizes: 50 mm, 65 mm, 80 mm, 100 mm, 125 mm, 150 mm, 200 mm, 250 mm, 300 mm



Wafer Type Manual Butterfly Valve

BS-HWC4 SERIES

Cast iron / Ductile iron body, DI/SS Disc, water and neutral liquid application, EPDM Liner

Nominal Pressure: PN16, PN25

Available In Sizes: 40mm, 50 mm, 65 mm, 80 mm, 100 mm, 125 mm, 150 mm, 200 mm, 250 mm, 300 mm, 350 mm, 400 mm, 450 mm, 500 mm, 600 mm



Bronze Balancing Valve

V5032Y SERIES

Double regulating balancing valve and shutoff valve, PN 16

Available in sizes: 15 mm, 20 mm, 25 mm, 32 mm, 40 mm, 50 mm, 65 mm, 80 mm



Flanged Balancing & Shut Off Valve

V4-BLV SERIES

Manual Balancing Valve

Nominal Pressure: 16 bar

Available in sizes: 50 mm, 65 mm, 80 mm, 100 mm, 125 mm, 150 mm, 200 mm, 250 mm, 300 mm



Wafer Type Motorized Butterfly Valve

BSBFW SERIES

DI and SS disc variants, IP66/IP67 rated electric actuator, On/Off and Modulating control

Available sizes: 50 mm, 65 mm, 80 mm, 100 mm, 125 mm, 150 mm, 200 mm, 250 mm, 300 mm, 350 mm, 400 mm, 500 mm, 600 mm



Y-Strainer

YS-SL SERIES

Y-Strainer

Nominal Pressure: 16 bar

Available in sizes: 15 mm, 20 mm, 25 mm, 32 mm, 40 mm, 50 mm, 65 mm, 80 mm, 100 mm, 125 mm, 150 mm, 200 mm, 250 mm, 300 mm



D06F pressure reducing valve for guaranteed water pressure control

A product for professionals

Honeywell pressure reducing valves have been fitted in millions of buildings over many years. Material quality, careful manufacture and corresponding long life of products have made Honeywell the market leader in pressure reducing valves.



PROTECTION

The D06F pressure reducing valve protects water systems in buildings against over pressure from supply. Balancing and optimization of fluctuating inlet pressures prevents damage occurring, for example in old systems when the pressure from the water supplier is increased.



QUALITY

Simple installation in the pipework and the use of materials suited to the application make the D06F particularly reliable and problem free:

- Not sensitive to dirt because of the integral filter and optimized flow path around the valve disc
- Corrosion resistant - made with dezincification - resistant brass and with spring located outside the flow medium
- Resistant to scaling or damage by cavitation of the valve seat because it is made of high quality synthetic material
- Construction and noise resistance tested to German DVGW and UK WRc guidelines



FLEXIBILITY

- The D06F can be used for water, other non-aggressive liquids, compressed air and for nitrogen and is also suitable for systems fitted with downstream flushing valves
- It can be used for high or low pressure requirements and for industrial applications
- Pressure reduction can be either centralized or on individual sections



Ideally suited for the task

SIMPLE TO USE

Outlet pressure set by simply turning to the required setting on the adjustment scale.

The individual setting determines at what pressure the water flows through the pipework.



EASY MAINTENANCE

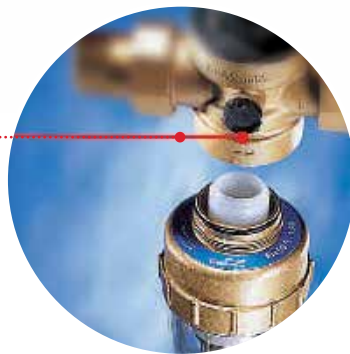
Valve cartridge replacement and filter cleaning can be carried out without removing the pressure reducing valve from the pipework.



READY FOR UPGRADING

The modular construction makes it possible to fit an FN09S retrofit filter and an RV277 non-return check valve to create a filter combination

Or complete water supply combination unit.



MINIMIZES NOISE

System flow noise is minimized by reducing outlet pressure and keeping it constant.





NON-RISING SPINDLE

The overall dimensions have been significantly reduced by using non-rising spindle. Simple tools are all that is needed for setting the required outlet pressure.

Spring bonnet with setting indicator

This additional feature enables the approximate setting to be seen at a glance, even if the pressure gauge is faulty.

WIDER CONTROL RANGE

The fitting of a special spring has made it possible to increase the control range from 1.5-6.0 to 1.5-8.0 bar (with the exception of size DN 200, which is 1.5 to 6.0 bar). Low pressure versions are also available with a setting range of 0.2 bar to 2.0 bar.

CORROSION-RESISTANT COATING

After thorough preparation the grey cast iron housing is coated both inside and outside with a physiologically and toxicologically safe powder coating. This results in exceptionally durable corrosion protection.

Flanged pressure reducing valve with a balanced single-seat design for trouble-free operation in high flow applications.

D15S PRV

- The balanced single-seat valve ensures that the outlet pressure remains stable, even when the supply pressure fluctuates greatly
- The valve spring is not in contact with drinking water
- The outlet pressure is set via a non-rising spindle Powder-coated inside and out
- Maximum operating temperature 70 °C
- Grey cast iron housing
- Connection sizes DN 50 to DN 200
- Maximum supply pressure 16 bar (D15S) & 25 bar (D17P)
- Two variations are available for different outlets pressure ranges:
 - D15S/D17P, 1.5 to 8 bar, D15SN, 0.2 to 2 bar

Constant Flow Balancing Valve

- Constant flow cartridge moves up and down with system pressure fluctuating to keep the flow constant
- No power needed in the constant flow modulating needed
- Every loop automatically limited to design flow
- Flow Precision: 5%
- Pressure Rating: Static 375 psi (25 Bars)
- Medium: water
- Media temperature: 0 ~ 110°C



AHU VALVES + ACTUATORS + CONTROLLER

AHU Valves

V50/58 Series

2 & 3-way threaded connection control valves

V5011/13,V5833/32,V5211

- Cast iron or red brass body and stainless steel stem
- Linear or equal percentage characteristics
- Temperature ranges from 2 °C to 170°C
- Size range from 15mm to 80mm
- Used with direct coupled electrical actuators
- Direct coupling with electrical or pneumatic actuators for easy mounting



V53 Series

2 & 3-way flanged connection control valves

V5328/5329

- Cast iron body with flanged end connections
- Stainless steel seat and plug
- Size range from 65mm-150 mm
- High close-off pressure ratings for two way applications
- Direct coupling with electrical or pneumatic actuator for easy mounting



AHU Valve actuator

ML74 Series

Valve Actuators

ML 7420/7421

- Quick and easy installation
- Microprocessor based positioner ensures precise stem positioning
- Low power consumption
- Visual valve position indicator furnished with the actuator
- Stroke position is selectable on signal failure in some models
- Position feedback signal available
- Wide range of inputs like 0/2-10 Vdc, 0/4-20mA, 0-135 ohm



AHU Temperature Controller

T2798I2000

Electronic temperature controller

T2798

- T2798I2000 is used for modulating control of air temperature in ducts and rooms
- Compact and slim design gives elegant and attractive look
- PI control action provides accurate, stable and comfortable temperature
- Compatible with direct-coupled damper/valve actuator like M7410E, ML7420, MI7421, ML7425, MI7984, CN series, etc.
- Adjustable zero energy band, on-off differential, proportional band and temperature offset
- Option of 2 to 10Vdc or 4 to 20mA direct acting or reverse acting analog output
- Wide temperature control range (-20°C to 110°C)



Electric Ball Valve

Low/stable driving torque

- Low leakage rate
- Easy installation

VBA216-P (DN20-DN80)

- Connection: Threaded
- Nominal pressure: PN16
- Flow characteristic: Equal percentage
- Leakage rate: $\leq 0.01\%$ of Kvs
- Medium: Water or neutral liquid
- Temperature: $-5 - 120^{\circ}\text{C}$



VBA216-F (DN65-DN150)

- Connection: Flanged
- Normal pressure: PN16
- Flow characteristic: Equal percentage
- Leakage rate: $\leq 0.01\%$ of Kvs
- Medium: Water or neutral liquid
- Temperature: $-5 - 120^{\circ}\text{C}$



Direct Coupled Actuator

- Accurate runtime
- High reliability
- Output torque greater than the rated
- Easy wiring

CN Series

- Air dampers
- VAV units
- Air handlers
- Ventilation flaps
- Rotary valve
- Limited to design flow



5Nm	10Nm	20Nm	34Nm
CN4605	CN4610	CN4620	CN4634
CN6105	CN6110	CN6120	CN6134
CN7505	CN7510	CN7220	CN7234

UB Series Controller

UB1211EN, UB2204EN, UB2221EN, UB4334SEN

Product Overview

The UB series stand alone controllers are intended for Heating, Ventilating, Air-Conditioning and Refrigeration in comfort control. It can be used to control temperature, humidity and so on. Built-in multiple application programs are selectable. Modulating output with 0...10VDC, 2...10VDC or 4...20mA signal output. Support DIN and Panel installation.



Features

- Large LCD, English display, beautiful appearance
- Operating voltage AC 24 V
- Multiple application programs selectable via Application Number
- Universal inputs for NTC20K, NTC10K, PT1000 temperature sensors and 0...10 VDC signals
- Modulating output with DC 0...10 VDC, 2...10VDC or 4...20mA signal output, direct or reverse action
- Two-position digital output, direct or reverse action
- PI parameter adjustable
- One Button for winter/summer changeover easily
- Entering or changing of all data via operating buttons on the controller, possible without additional tools
- Support DIN, In-door panel installation
- Schedule (Only provided by UB4334SEN)

PRESSURE INDEPENDENT CONTROL VALVES

KOMBI 9

Balancing Control Valve

- Connection:DN25~DN150
- Flow control accuracy:±5%
- Valve rated pressure:PN16
- Media:Water, glycol solution
- Media temperature:-5° ~120°C
- Operating ambient temperature:0~65°C
- Atmosphere:Non-corrosive, non-explosive





- Integrated functions as linear temperature control, pressure independent and electric regulating into one valve
- Output the valve position signal to BAS for system variable differential pressure control of variable flow water system, ensure HVAC water system can always operate in the most energy-saving mode
- High control accuracy, strong anti-interference capacity
- Allow a wide range of pressure fluctuation difference for the system
- A simple calculation in designing the pipeline system
- Easy installation
- Convenient for commissioning at site

PRESSURE INDEPENDENT CONTROL VALVES

KOMBI-QB

Automatic pressure-independent control valve

All in one

As an automatic, pressure-independent control valve, the Kombi-QB VQB015T..025T combines the advantages of an automatic pressure-independent flow controller with those of a constant valve – all in one product. Pressure-independent control valves are particularly suitable for heating and cooling systems such as fan coils, chilled ceilings, air heaters, etc.

With the new Kombi-QB product family in nominal widths of DN25 to DN150, there's a perfect solution for any application.

Dynamic balancing with Kombi-QB

- Automatically adjusts for all operating conditions, even under partial load
- Easy to set up hydraulic balancing, since only the calculated flow needs to be set
- Precise control over the full stroke, even with the smallest quantities
- Additional temperature control by means of an actuator, available as an optional extra
- All variants with SafeCon™ measurement connections to ascertain the optimum pump pressure

ACCESSORIES



VM242A BasicMes-2
Measuring computer for determining flow values. BasicMes can be used to test all popular brands of balancing valves.



VS2600C Pressure test connections
Honeywell SafeCon™ measurement connections can be used to carry out any necessary measurements quickly, easily and safely – no matter what the installation position.

Saving energy with hydraulic balancing As an essential requirement for any heating or cooling system, hydraulic balancing offers considerable potential. A properly balanced hydraulic heating or cooling system operates effectively and economically.

Kombi-QB VQB015T..025T

Pressure-independent control valve DN15 to DN25

Scale

Presets can also be read and set with the actuator installed. Sealed against unintentional adjustment – sealable

Percentage display

No data sheet necessary for adjustment – simply set the percentage of the maximum flow

Controlled independently of pressure

The set flow rate is maintained irrespective of fluctuations in pressure



Precise control

Over the full stroke thanks to an integrated gate

ment for smooth, economical operation of a heating
potential for direct energy savings. A perfectly balanced
economically, providing energy savings of up to 10%.



Easily accessible

Handling of all functions from one valve side

Measurement connection

All variants with SafeCon™ measurement connections for quick, easy and safe measurement

Multi-connection

Male and female pipe connection are available

SYSTEM PRODUCTS



Thermo-electric On/Off actuators

Actuators such as the Smart-T are used in room and zone applications for the timecontrolled two-point and pulse-width modulated (PMW) control of heating and cooling systems.



Electronic Modulating actuators

Actuators such as the M7410E can be used for Modulating control. Precise positioning of the actuator is achieved by activating the Synchronous motor through a set of gears.



Electronic Floating actuators

Actuators such as the VC6983 can be used for three-point control.



Electronic On/Off actuators

Actuators such as the MC2000 can be used for On/Off control. Depending on the model selected they can be controlled by a low or line voltage SPST controller.

FCU VALVES + ACTUATORS

Fan Coil Unit Valve / Actuator

- Good reliability with outstanding performance
- Complete portfolio to cover on/off, floating and modulating applications
- Both spring return and non-spring return models available

VC4013/6013 Fan Coil Electric Valve

- On/Off
- 110 / 220VAC
- 2-way/3-way
- DN15, 20, 25
- Static Pressure: PN20



VC7931 Fan Coil Electric Valve

- Modulating
- 24VAC
- 2-way/3-way
- DN15, 20, 25, 32
- Static Pressure: PN20



VC6983 Fan Coil Electric Valve

- Floating
- 220VAC
- 2-way/3-way
- DN15, 20, 25, 32
- Static Pressure: PN20



VC4043 Fan Coil Electric Valve

- On/Off
- 220VAC
- 2-way/3-way
- DN15, 20, 25
- Spring-return
- Static Pressure: PN20



FCU THERMOSTATS

Thermostat

- Accurate temperature control
- PI control, energy saving
- Non-programmable or programmable
- Support on/off, floating and modulating valve control

TF418/428 Digital Thermostat

- On-Off
- 110/220/230 VAC
- 2-pipe/4-pipe
- Backlight LCD
- Cycle per Hour
- Memorized Time off
- Color options: White, Black, Silver, Rose Gold, Copper. Silver Hairline, Gold Hairline, Blue, Green, Orange, Gray, Marsala



T6373 Mechanical Thermostat

- On-Off
- 220 VAC
- 2-pipe/4-pipe
- Mechanical



T6861-F Digital Thermostat

- Floating
- 230 VAC
- 2-pipe
- Backlight LCD
- Remote Sensor
- CE



T6800 Digital Thermostat

- On-Off
- 110/220 VAC
- 2-pipe
- LCD
- Remote Setback
- Remote Sensor



T6862 Digital Thermostat

- On-Off
- 110/220 VAC
- 2-pipe/4-pipe
- Backlight LCD
- Programmable
- Remote Setback
- Remote Sensor



TF228WN-C Digital Thermostat

- On-Off
- 220 VAC
- 2-pipe
- Backlight LCD
- Memorized Time off
- CE & SASO



T6861 Digital Thermostat

- On-Off
- 110/230 VAC
- 2-pipe/4-pipe
- Backlight LCD
- Remote Setback
- Remote Sensor
- CE



T6865 Digital Thermostat

- Modulating
- 24 VAC
- 2-pipe
- Backlight LCD
- Remote Setback/ Sensor

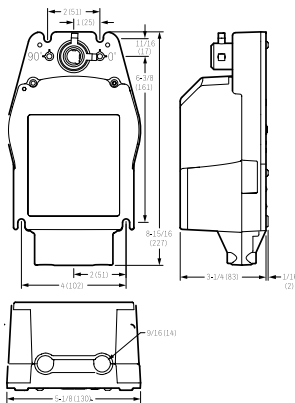


The ease of use, precision accuracy and attractive design all help make Honeywell the most trusted thermostat name. Choose Honeywell thermostats to meet the needs of every commercial and home HVAC application, budget and customer.

FIRE AND SMOKE DAMPER ACTUATORS



Series 30 lb-in.
Series 80 lb-in.



Safety First

Safety should never be left to chance. Honeywell fire and smoke actuators are designed to meet both UL-555 and UL-555S 350 F safety requirements for fire and smoke applications. Fast-acting actuators close dampers in 15 seconds, and the integral spring return ensures the consistent, proper level of torque. For the highest level of occupant safety, you can count on Honeywell.

- Meets UL-555 and UL-555S requirements
- Robust die-cast aluminum housing for protection and long service life
- Maximum spring return timing of 15 seconds
- Reliably built by the industry leader

Complete Line

Whether you're working retrofit applications or new construction, Honeywell has the right two-position spring return actuator for the job — with the largest torque range in the industry. Along with meeting safety standards, Honeywell fire and smoke actuators also feature an energy-saving patented design that eliminates limit switches to reduce power consumption.

- 30, 80 and 175 lb-in. torque models available
- Energy-saving design
- No audible noise during holding

Trust That's Earned

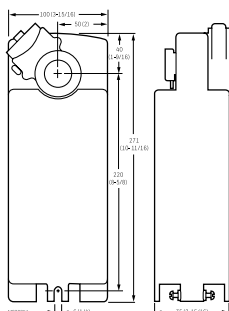
Where safety is concerned, you want products that are tested and proven. Request Honeywell fire and smoke actuators on your next job, and put the peace of mind of Honeywell reliability to work for you.

Time Saving Features

Honeywell's reversible design saves you time during installation and replacement with integral conduit connector and simple shaft adapter. The integral conduit connector enables electrical installation without the need for additional connectors, saving you time and money.



Series
175 lb-in.



Replacement Opportunity

Honeywell is the leading supplier of fire and smoke actuators designed for UL555 and UL555S. Our current product line is designed for universal replacement of all existing Honeywell fire and smoke damper actuators.

Honeywell spring return fire and smoke actuators are not designed for HVAC applications and HVAC actuators are not designed for fire and smoke applications. Fire and smoke actuators are fast acting, have a faster spring return and close-off than HVAC actuators, helping to prevent the spread of fire and smoke. Honeywell's spring return fire and smoke actuators are designed to meet UL-555 and UL-555S 350 F requirements. UL-555 and UL-555S requires that all new construction fire and smoke damper jobs have the actuator assembled and tested at the damper manufacturer. A like-for-like retrofit replacement or technically equal UL-555 and UL-555S approved device is recommended.

Fire and Smoke Spring Return Actuators

Torque	Model Number	Voltage	SPST Aux Switch
30 lb-in (3.4 Nm)	MS4104F1010	120 Vac	0
	MS4104F1210	120 Vac	2 Internal
	MS4604F1010	230 Vac	0
	MS4604F1210	230 Vac	2 Internal
	MS8104F1010	24 Vac	0
	MS8104F210	24 Vac	2 Internal
80 lb-in (9 Nm)	MS4109F1010	120 Vac	0
	MS4109F1210	120 Vac	2 Internal
	MS4609F1010	230 Vac	0
	MS4609F1210	230 Vac	2 Internal
	MS8109F1010	24 Vac	0
	MS8109F1210	24 Vac	0
175 lb-in (20 Nm)	MS4120F1006	120 Vac	0
	MS4120F1204		2 Internal
	MS4620F1005	230 Vac	0
	MS4620F1203		2 Internal
	MS8120F1002	24 Vac	0
	MS8120F1200		2 Internal

CS Series

- Volume control dampers, mounted directly to the drive shaft or remotely (with the use of accessory hardware)
- Quarter-turn rotary valves, such as ball or butterfly valves mounted directly to the drive shaft
- Linear stroke globe or cage valves mounted with linkages to provide linear actuation

5Nm	10Nm	20Nm
CS4105	CS4110	CS4120
CS7505	CS7510	CS7520
CS8105	CS8110	CS8120



SENSORS

- Duct mounted, Wall Mounted
- Excellent linearity with long term stability and reliability
- Easy installation
- Wide sensing range

C7080A (Temperature Only Sensor, Duct)

H7080B (Humidity & Temp Transducer, Duct)

- NTC10K, NTC20K, PT1000
- 4~20mA/0-10VDC output
- 0~100% RH
- -10~40 °C
- EMC conformance
- IP54 rating



P8000 Pressure Transmitter

- Applicable in gas & liquid media
- High accuracy
- Thermal compensation
- Compact construction
- Full Mis-wire protection between all signal and power lines
- Stainless steel Wetted part
- CE



CO₂ sensor



CDS2000A1000C

CDS2000A2000C

CDS2000A3000C

CO sensor



GD250W4NB

GD250W4N

GD250W4E

Differential Pressure Switch for Air



DPS Series

Differential Pressure Switch for Water



UEC24014

Differential Pressure Transmitter



DPT Series

Static Pressure Transducer



P7620A

Differential Pressure Transducer



P7620C

Humidistat



H6000

Water Flow Switch

WFS6000

- This switch is used to monitor flow rate in pipes for all HVAC applications
- Paddle - type SPDT water flow switch
- Recommended for monitoring liquid flow status
- Sensitivity adjusting screw makes flow adjustment easy
- Liquid flow switches; also suitable for oil, cooling circuits and lubrication system



HBT India Buildings



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