



# PRICE LIST 2023



Simplify the Complex®

# Contents

## Introduction

About Us	4-5
From Concept to Completion	6-7

## Comfort Control Solutions

Residential Comfort Control	8-9
Commercial Solution	10-11
Hotel Guest Room Solution	12-13

## BACnet Products

Routers, Network Managers & Gateways	14-15
Controllers	16-17
User Interfaces	18-19
IO Modules	20-21
Gen 3 Sensor Overview	22-23
Smart Sensors	24-25

## Wireless Solutions

TPZ-Net	26-27
---------	-------

### Terms and Conditions

All sales are subject to Titan Products Ltd. standard terms and conditions. All prices are in £ Sterling (GBP) and are exclusive of VAT, carriage & packing. Titan Products reserve the right to revise prices without notification. Titan Products reserve the right to modify or withdraw any product or service without notification.

All orders are accepted subject exclusively to Titan Products Ltd. terms and conditions of sale which are published on [www.titanproducts.com](http://www.titanproducts.com).

## Environmental Sensors

Temperature Sensor Overview	28-29
Temperature Sensors	30-35
Carbon Dioxide (CO2) Sensors	36-37
CO2 Indicator	38-39
Humidity Sensors	40-41
Air Velocity & Air Pressure	42-43
Light Level Sensors	44
Liquid Detection	45

## Input / Output Modules

IO Modules	46-49
Power Supplies	49

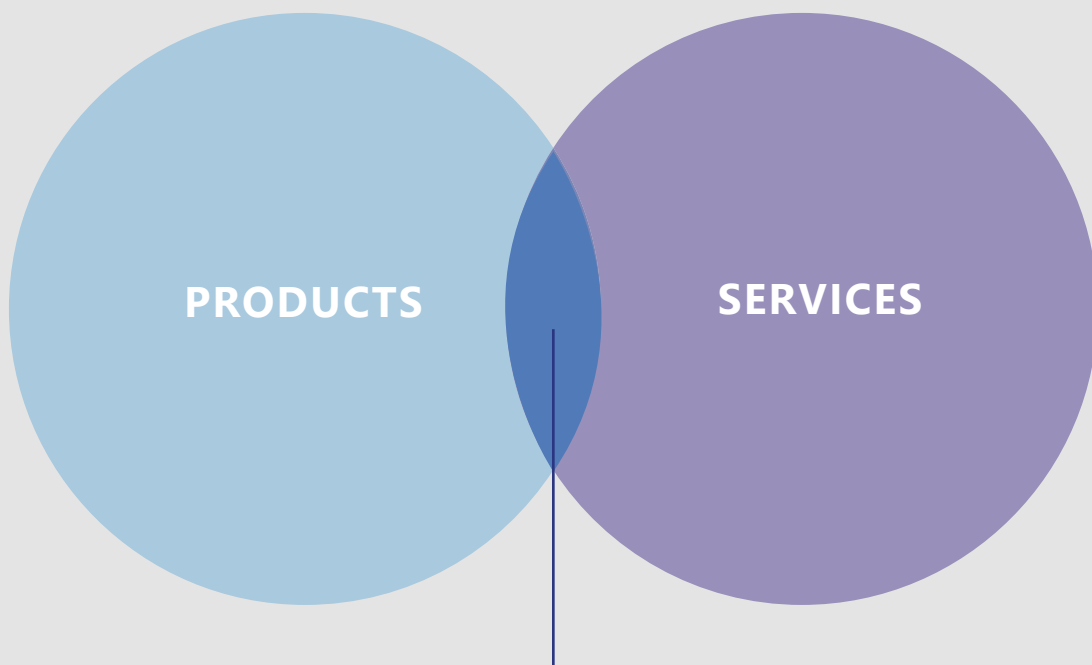
## Standalone User Interfaces

User Interfaces	50-51
-----------------	-------

## Delivery Options

Standard 1-2 days before 5.30pm	DELIVERY UK MAINLAND (England, Wales & Southern Scotland) (up to 15 Kilos)	9.50
Next Day before 12 noon	DELIVERY UK MAINLAND (England, Wales & Southern Scotland) (up to 15 Kilos)	16.00
Next Day before 10.30am	DELIVERY UK MAINLAND (England, Wales & Southern Scotland) (up to 15 Kilos)	22.00
<b>For other destinations consult sales office.</b>		

# WHO WE ARE



## SOLUTIONS

We combined our 35 year experience manufacturing market leading HVAC products with the latest services to offer a complete monitoring solutions from concept to handover.

# Simplify the Complex<sup>®</sup>

At Titan we simplify the complex to help our customers create truly smart spaces promoting wellbeing, comfort and energy efficiency.

Through innovation and continuous investment in technology and people, our intelligent control solutions aid the delivery of smart buildings and create connected spaces.

Our range of HVAC and smart building products and services provide innovative monitoring & control solutions for residential, education, retail, hospitality and healthcare settings.

## **UK DESIGNED, DEVELOPED & MANUFACTURED**

At Titan we are proud that our solutions are all designed, developed and manufactured in the UK allowing first class services and support to be provided alongside the products.

# FROM CONCEPT TO COMPLETION

At Titan we design and develop our products and services to aid every stakeholder in the delivery of smart and efficient building control. From design, install and commissioning through to end user, facilities managers and building owners , every feature of the solution has been carefully selected and developed to add value to the users experience.



## CONSULTANT/SPECIFIER/DEVELOPER

At Titan our solutions are delivered as intended from day 1 with modern aesthetics and the best possible user experience



## INSTALL

All hardware and software is designed to provide installers with the speed of install and insight they require to hand over to the commissioning team.



## COMMISSIONING

With features such as application specific controllers, pre-set to requirements or NFC commissioning apps we have reduced the time it takes to commission our products, reducing the time required on site.



## FACILITY & ASSET MANAGERS/ BUILDING OWNERS

Our sensors provide essential data for controlling and optimising buildings. A data-driven approach helps reduce energy consumption, enhance occupant comfort and safety, and improve overall building efficiency and sustainability.



## BUILDING OCCUPANTS

All solutions are designed to provide the highest levels of occupant comfort and well-being to promote productivity within the workplace.



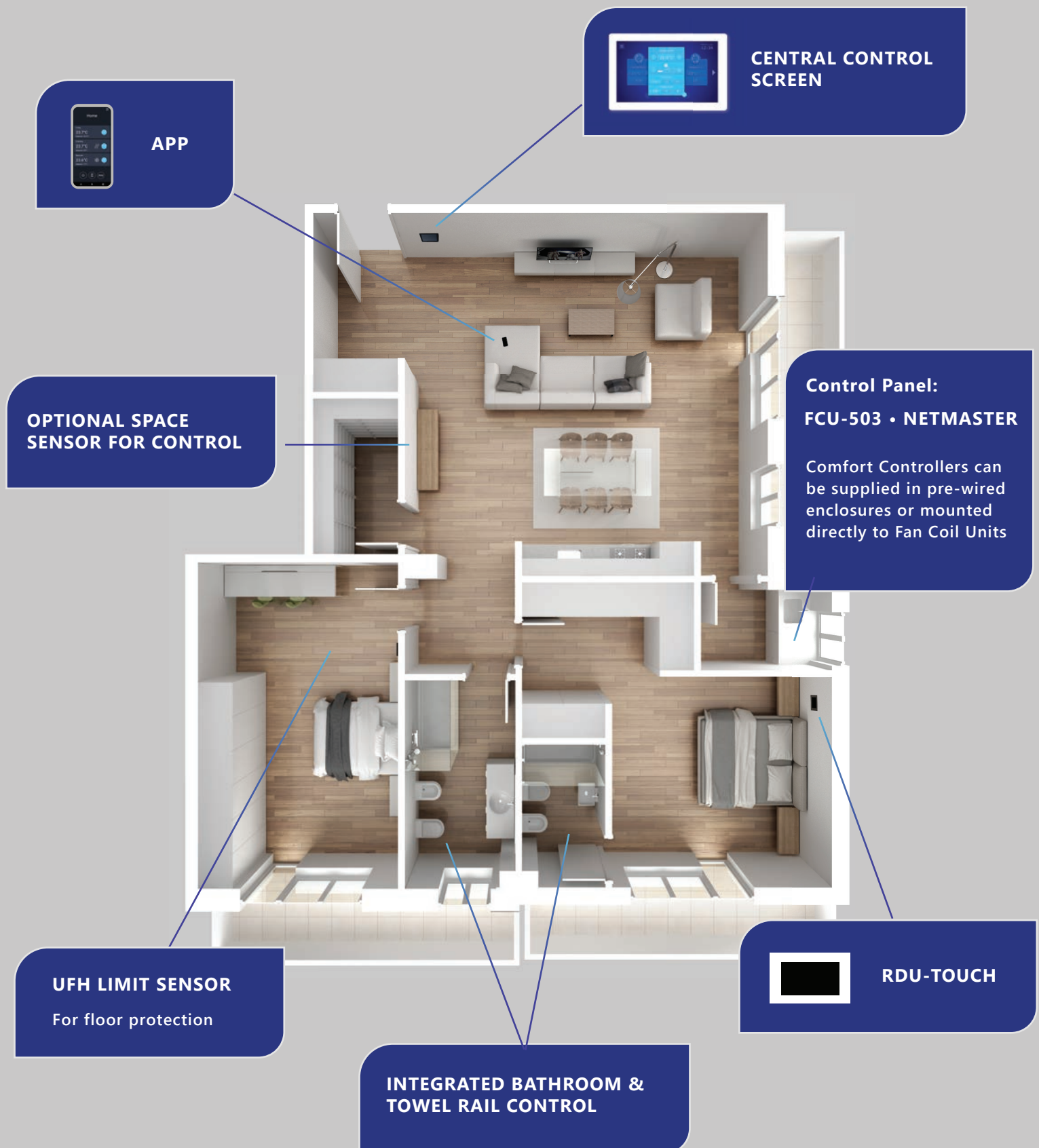
# RESIDENTIAL COMFORT CONTROL

Our Residential solution combines energy efficient FCU and UFH control for living room, bedrooms and bathrooms for complete property control with stylish user interfaces, utilising interoperable communication with links to BMS and IoT.





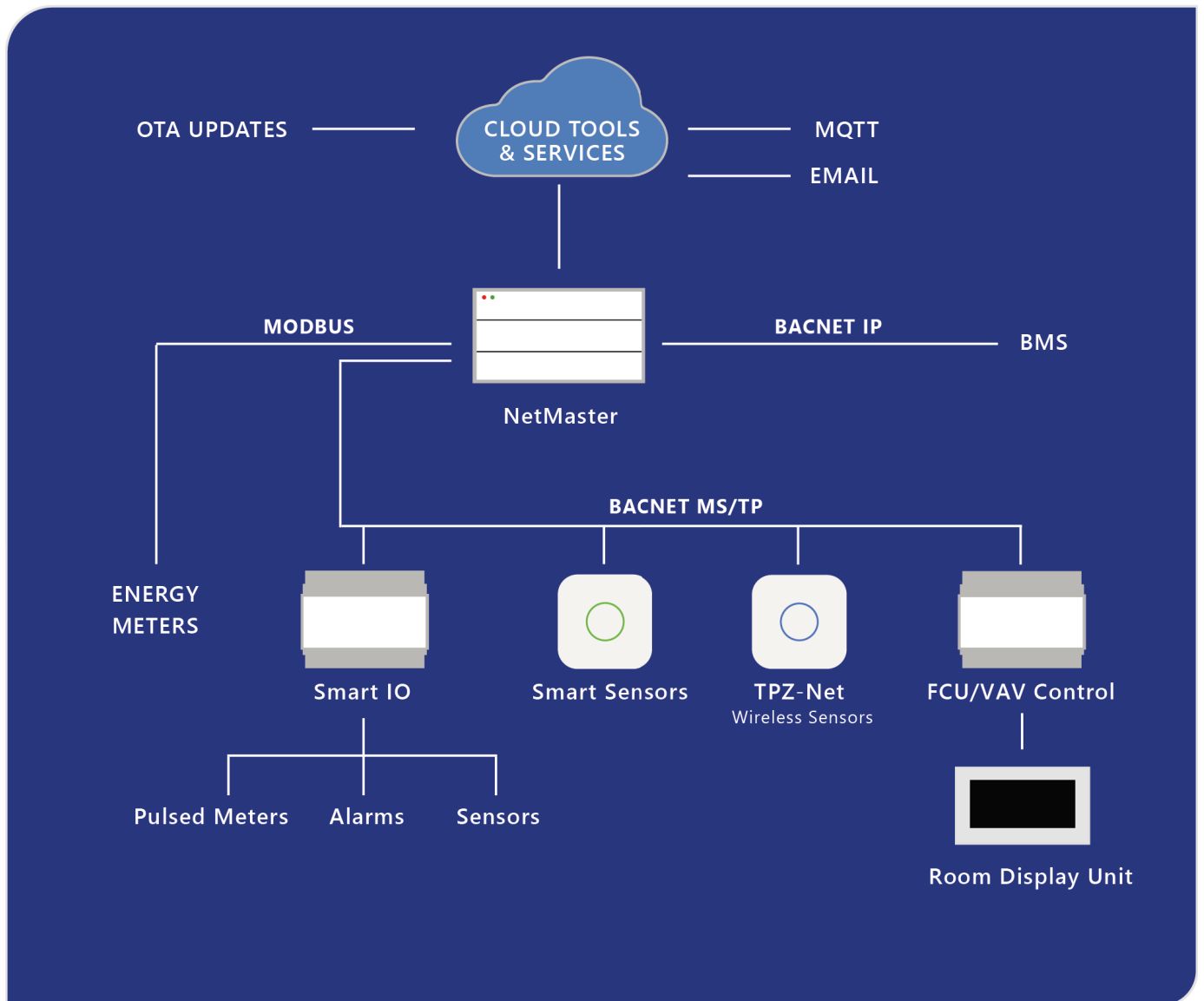
## COMBINED FCU & UNDERFLOOR HEATING CONTROL



# COMMERCIAL SOLUTION

Combining comfort control, energy consumption visualisation and air quality monitoring with interoperable BMS and IoT communications, our commercial solution provides the perfect balance of fan coil and VAV control/monitoring within commercial buildings and retro fit projects.





FCU/VAV CONTROL



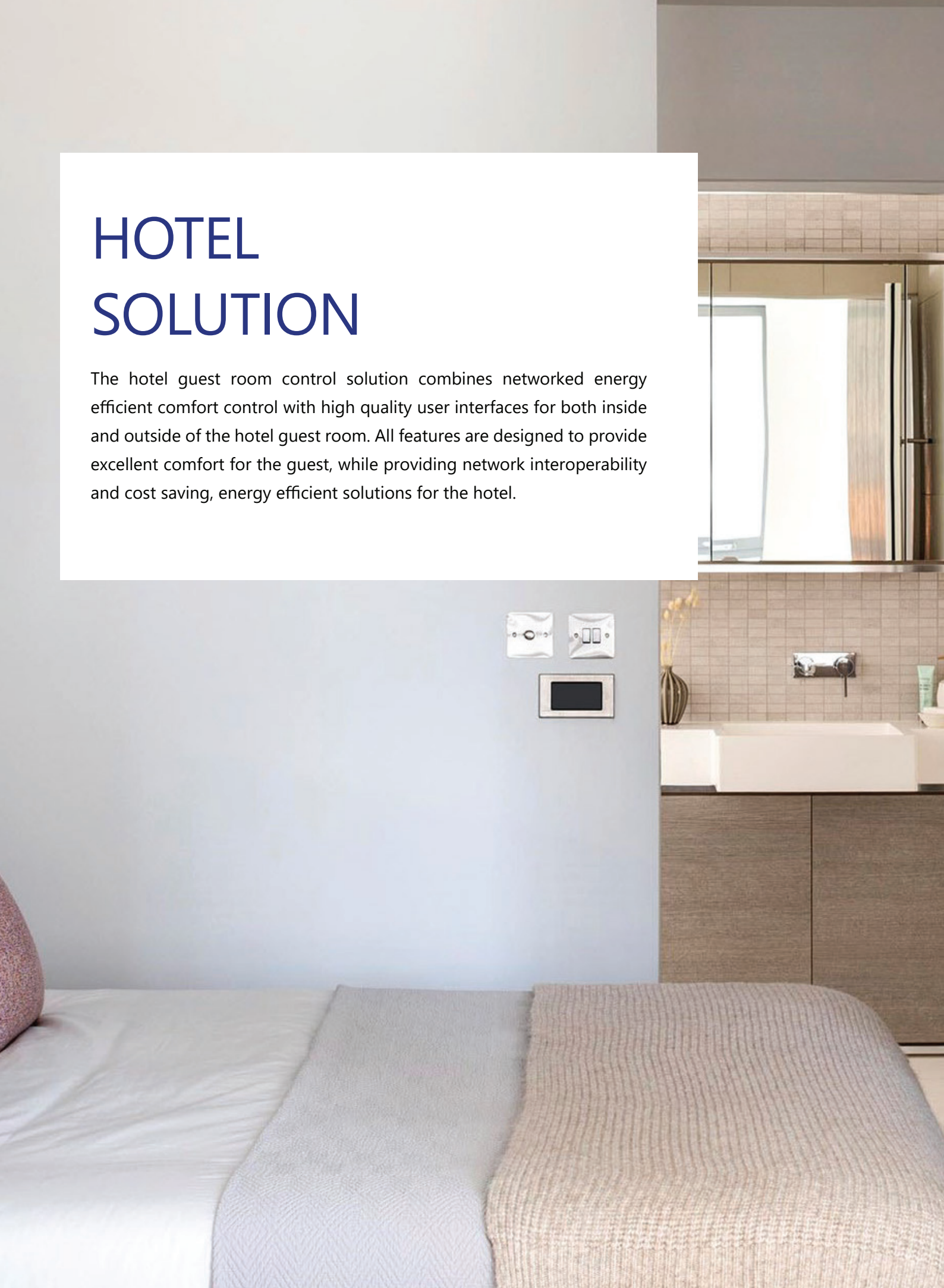
ROOM DISPLAY UNIT



GEN 3 ROOM SENSORS

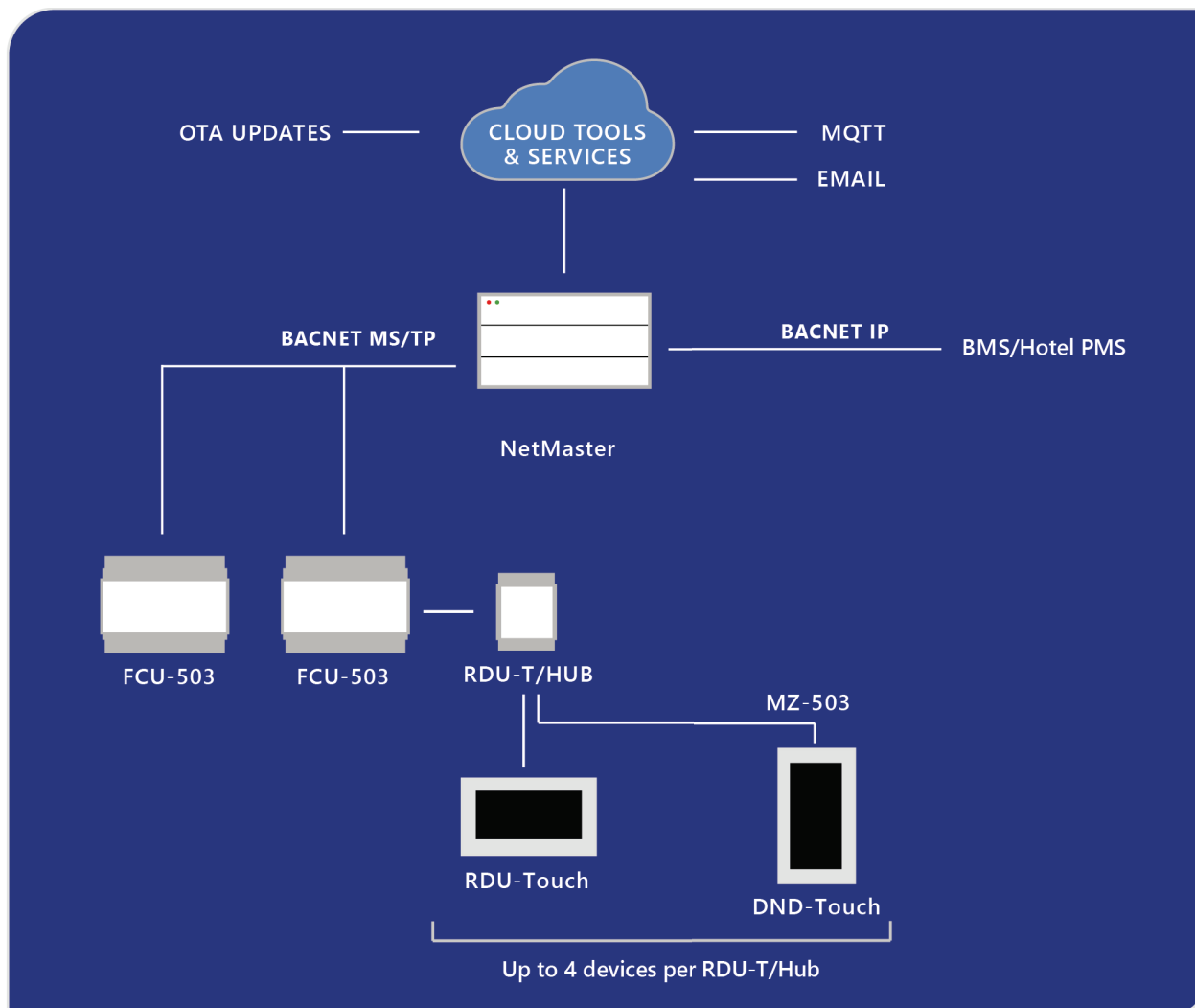
# HOTEL SOLUTION

The hotel guest room control solution combines networked energy efficient comfort control with high quality user interfaces for both inside and outside of the hotel guest room. All features are designed to provide excellent comfort for the guest, while providing network interoperability and cost saving, energy efficient solutions for the hotel.





## NETWORKABLE ENERGY EFFICIENT COMFORT CONTROL



FCU-503  
FAN COIL CONTROLLER



GUEST ROOM DISPLAY  
UNIT



CORRIDOR TOUCH PLATE



# BACNET ROUTERS, NETWORK MANAGERS & GATEWAYS

Unlock the full potential of your building automation system with our range of BACnet Routers, Network Managers and Gateways.



## NetMaster BACnet MS/TP to IP Network Routers

The NetMaster Router effortlessly routes BACnet MS/TP points from connected BACnet peripheral devices to BACnet/IP communication messages.



NetMaster Router

Part No.	Description	£
BACnet Routers		
TP-NM-D	NetMaster BACnet MS/TP to BACnet IP Router	395.00

## NetMaster Network Managers for Titan Residential Solution

Complete network management of residential properties incorporating scheduling, alarming, network mapping and control, with optional energy monitoring.



NetMaster Network Manager

Part No.	Description	£
BACnet Network Managers		
TP-NM-R-D	NetMaster Network Manager (Din rail mounted)	POA
TP-NM-R-EM-D	NetMaster Network Manager with Energy Monitoring (Din rail mounted)	POA

## Modbus to BACnet Gateway

The CCI-2X485 BACnet gateway is designed to convert Modbus RTU registers to BACnet MS/TP points. This allows Modbus compatible devices to be added easily onto a BACnet MS/TP network.

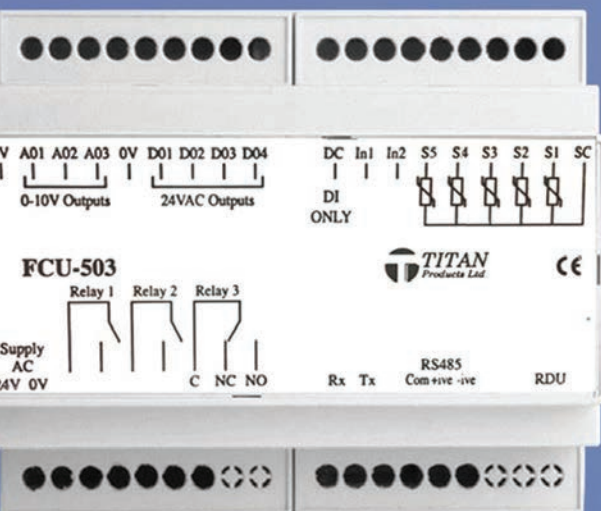


CCI-2X485

Part No.	Description	£
BACnet Gateway		
CCI-2X485/24V	Modbus to BACnet Gateway 24V supply <i>Supplied with bespoke PC mapping software.</i>	140.00
FPT-601	Required to upload mappings to CCI-2X485	96.00

# CONTROLLERS

Our range of application specific BACnet controllers covers fan coil (FCU), under floor heating (UFH), variable air volume (VAV), natural ventilation and multi-purpose control applications. All controllers are designed to provide flexible control, while minimising install and commissioning time.



## Application Specific Control

Despatched ready to go for your control requirements

## Flexible Control Options

Heat, cool and fan control options

## Native BACnet Communications

Interfaces with leading BMS manufacturers

## Pre-Addressing Options

Reducing commissioning time

## FCU Controllers

Flexible heating, cooling and fan control for residential, commercial and hotel use.



FCU-503

## Multi-Zone UFH Controllers

Up to 4 zones of flexible UFH control



MZ-503

## VAV Controller

VAV control with CO2 control and re-heat capabilities.



CCM-204/VAV

## Natural Ventilation Controller

Multi-zone window/vent control based on temperature/CO2 conditions.



CCM-204/MPC

## Multi-Purpose Controller

Wide range of HVAC control applications ranging from simple ON/OFF control to multi-stage vent / cool / heat applications



CCM-204/MPC

Part No.	Description	£
<b>FCU-4 BACnet Fan Coil Controller</b>		
FCU-402	FCU-402 BACnet fan coil controller for use with RDU-4 (4 x 24VAC / 2 x 0-10V outputs)	POA
FCU-403	FCU-403 BACnet fan coil controller for use with RDU-4 (3 x 24VAC / 3 x 0-10V outputs)	POA
<b>FCU-503 BACnet Combined Fan Coil and Underfloor Heating Controller</b>		
FCU-503	FCU-503 BACnet fan coil / UFH controller for use with RDU-Touch	POA

Part No.	Description	£
<b>MZ-503 BACnet Multi Zone Heating Controller</b>		
MZ-503	MZ-503 BACnet Multi Zone heating controller (4 x zones of heating control)	POA

Part No.	Description	£
<b>BACnet Variable Air Volume (VAV) Temperature Controller</b>		
CCM-204/VAV	Networkable VAV Controller for VAV boxes: 4 x 0-10V outputs, 2 x triac outputs, 2 x Relay outputs	POA

Part No.	Description	£
<b>BACnet Air Velocity / Air Pressure Controllers</b>		
CCM-204/NV	2 Zone Natural Ventilation Controller for Cross Flow and Fan Boost applications with real time clock for 0-10V control applications	POA
NVC-1204	3 Zone Natural Ventilation Controller for 24VDC drive chain applications	POA

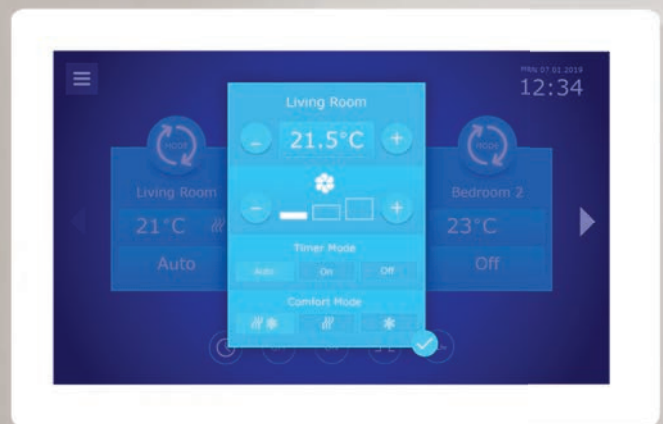
Part No.	Description	£
<b>BACnet Multi-Purpose Controllers</b>		
CCM-204/MPC	Multi-Purpose BACnet Controller: 4 x 0-10V outputs, 2 x Triac outputs, 2 x Relay outputs	POA



# USER INTERFACES

## FOR USE WITH BACNET CONTROLLERS

Our Central Control Screens and Room Display Units work with our controllers and offer stylish and intuitive in-room user interfaces for use alongside Titan's network managers and BACnet controllers.





## Central Control Screen (CCS)

Allows adjustment of comfort control for all zones within a property from a single location.



Central Control Screen

Part No.	Description	£
<b>Central Control Screen (for use with TP-NM-R and TP-NM-R-EM)</b>		
TP-CCS-7-W	Central Control Screen, 7 inch display (White)	POA
TP-CCS-7-B	Central Control Screen, 7 inch display (Black)	POA

## Room Display Units (RDU)

Allows zonal adjustment of comfort control with residential, commercial and hotel applications.



Touch Screen Room Display Unit (RDU-Touch)

Part No.	Description	£
<b>Touch Screen Room Display Unit (for use with FCU-503 controllers)</b>		
RDU-Touch	RDU-Touch room display unit (white RAL9016 metal surround)	POA
Note: Add /W for white RAL9016 metal surround or /B for black RAL9005 metal surround Other finishes available, please contact the sales team for details.		

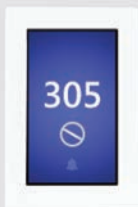


4 Button Room Display Unit (RDU-4)

Part No.	Description	£
<b>RDU-4 Room Display Unit (for use with FCU-4 and CCM controllers)</b>		
RDU-4/F	RDU-4 room display unit - For use with FCU-4 & CCM-VAV	POA
RDU-4/F/MPC	RDU-4 room display unit - For use with CCM-MPC	POA
RDU-4/F/NV	RDU-4 room display unit - For use with CCM-NV	POA
Note: Add /W for white RAL9016 metal surround or /B for black RAL9005 metal surround Other finishes available, please contact the sales team for details.		

## DND Corridor Plate

Hotel corridor plate with Make Up Room, Do Not Disturb and Guest Room Number integration.



DND-Touch

Part No.	Description	£
<b>DND-Touch Hotel Corridor Plate (for use with FCU-503 controllers)</b>		
DND-Touch	DND-Touch hotel corridor display unit for MUR & DND indication (white RAL9016 metal surround)	POA
<b>RDU-Touch/Hub for Multi-Drop</b>		
RDU-T/Hub	RDU-Touch hub for connecting up to 4 x RDU-Touch or DND-Touch units to a single FCU-503 controller	55.00
Note: Add /W for white RAL9016 metal surround or /B for black RAL9005 metal surround Other finishes available, please contact the sales team for details.		

## Interconnecting Leads

Communication and power cables linking CCS and RDU interfaces to BACnet controllers/Network Managers.

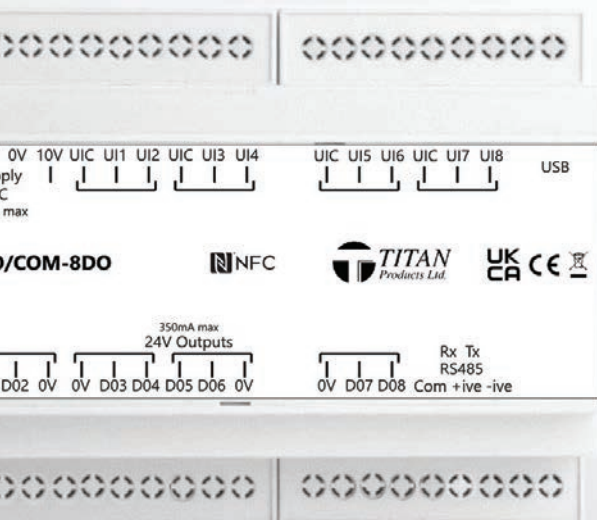
Other lengths available on request.

Part No.	Description	£
<b>Interconnecting Leads</b>		
RJ11/6X6/10m	RDU-4/BACnet controller interconnecting lead with RJ11 plugs (10m)	14.00
RJ45/10m	RDU-Touch/BACnet controller interconnecting lead / CCS interconnecting lead to Network Managers (10m)	19.00
DCLEAD/10m	Power lead for CCS and EMS (connects to Titan pre-wired panels) (10m)	12.00

# BACNET/MODBUS IO MODULES

Cost-effective network I/O expansion

The Smart Input / Output (IO) modules are designed to provide additional and cost effective networkable device points to a BACnet MS/TP or Modbus RTU network.



## Flexible Universal Inputs

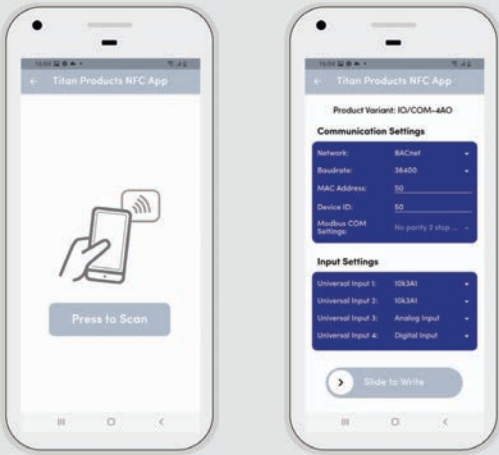
Configurable user inputs including temperature sensors, analogue or digital inputs

## Output Options

Relay, 24V Digital or 10V Analog  
(variant dependent)

## Simple Setup

All our Smart IO modules are supplied with Near Field Communication (NFC) capabilities as standard. This allows the IO modules to be set up using a smart phone or tablet via the Titan Commissioning App with the desired setup passed to the Smart IO module instantly, with or without power applied to the units. Alternatively, a PC based setup tool is also available if required



## Smart IO Modules

Available with 4 or 8 universal input configurations and choice of output options.



Smart IO Module with 4 x UI



Smart IO Module with 8 x UI

Part No.	Description	£
IO/COM Smart Input Output Modules with 4 Universal Inputs (UI)		
IO/COM-4DO	Smart IO Module with 4 x UI and 4 x Digital Outputs	130.00
IO/COM Smart Input Output Modules with 8 Universal Inputs (UI)		
IO/COM-8AO	Smart IO Module with 8 x UI and 8 x Analogue Outputs	195.00
IO/COM-8DO	Smart IO Module with 8 x UI and 8 x Digital Outputs	195.00
IO/COM-8R	Smart IO Module with 8 x UI and 8 x Relay Outputs	195.00
IO/COM Commissioning Kit		
IO-COMKIT	Commissioning Kit comprising of Smart IO Configuration Tool and USB to Mini USB Cable	18.00

# GEN 3 SENSORS

## NEW LOOK, IMPROVED FUNCTIONALITY, SAME HIGH QUALITY

Blending design and function, Titan's room sensors have undergone a total redesign, optimising the room sensor to set a new standard. Combining modern, slimline aesthetics with Titan's high product quality and reliability, the Gen 3 Room Sensors have been designed with you in mind.



# THE LATEST IN ENVIRONMENTAL MONITORING

## Our slimmest room sensor to date

The slimline, modern sensors bring design and functionality together like never before.

At only 19mm deep the slimline temperature, humidity and CO2 sensors are our slimmest room sensors to date, perfect for integrating into smart buildings.



## LED HALO

Introducing the LED HALO for CO2 indication.

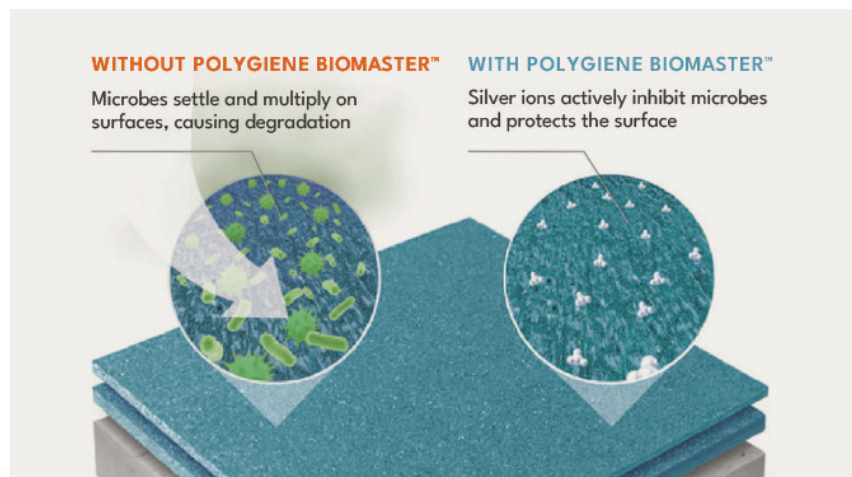
Designed as a simple yet informative interface the HALO is the ideal companion for understanding CO2 levels to maximise occupant comfort and well-being.



## Anti-microbial properties

All room housings within the Gen 3 product line incorporate certified Polygiene® product protection, designed to pro-actively inhibit the growth of harmful microbes such as bacteria, viruses and fungi on the sensor surface.

As we continue to prioritise health and well-being in our indoor spaces, the surfaces of the sensors are poised to play a role in reducing cross contamination from multi users, creating a more hygienic surface and supporting more efficient environments for all.





# BACNET/MODBUS SMART SENSORS

With the emergence of smart buildings, there is an ever growing need for improved connectivity and interoperability between devices along with the requirement to keep install costs to a minimum. Our Smart range of HVAC sensors provide interoperable connectivity by communicating directly onto a BACnet MS/TP or Modbus network.



## Smart Room Sensors

Networkable temperature, CO2 and humidity room sensors



Smart Room Sensor - Slimline



Smart Room Sensor - Halo

## Smart Setpoint Adjuster with Control



Smart BACnet Room Controller  
with sensor and set point adjust

*Flush mounted, brushed stainless surround*

## Smart Plant Sensors

Networkable sensors for external, air duct and water pipe applications



Smart BACnet & Modbus  
Outside Sensor



Smart BACnet & Modbus  
Duct Sensor

Part No.	Description	£
<b>Smart Temperature &amp; Humidity Sensor</b>		
TP-RS-RHT-BMS	Gen 3 Room Temperature & Humidity Sensor with BACnet / Modbus communications - slimline enclosure	90.00
Supplied as white as standard. For black enclosures add -B to end of part no.		+2.50
<b>Smart CO2 Temperature &amp; Humidity Sensor</b>		
TP-RS-CO2RHT-BMS	Gen 3 Room CO2 Temperature & Humidity Sensor with BACnet / Modbus communications - no LED - slimline enclosure	132.00
Supplied as white as standard. For black enclosures add -B to end of part no.		+2.50
TP-RS-CO2RHT-BMS-H	Gen 3 Room Co2 Temperature & Humidity Sensor with BACnet / Modbus communications - HALO LED	147.00

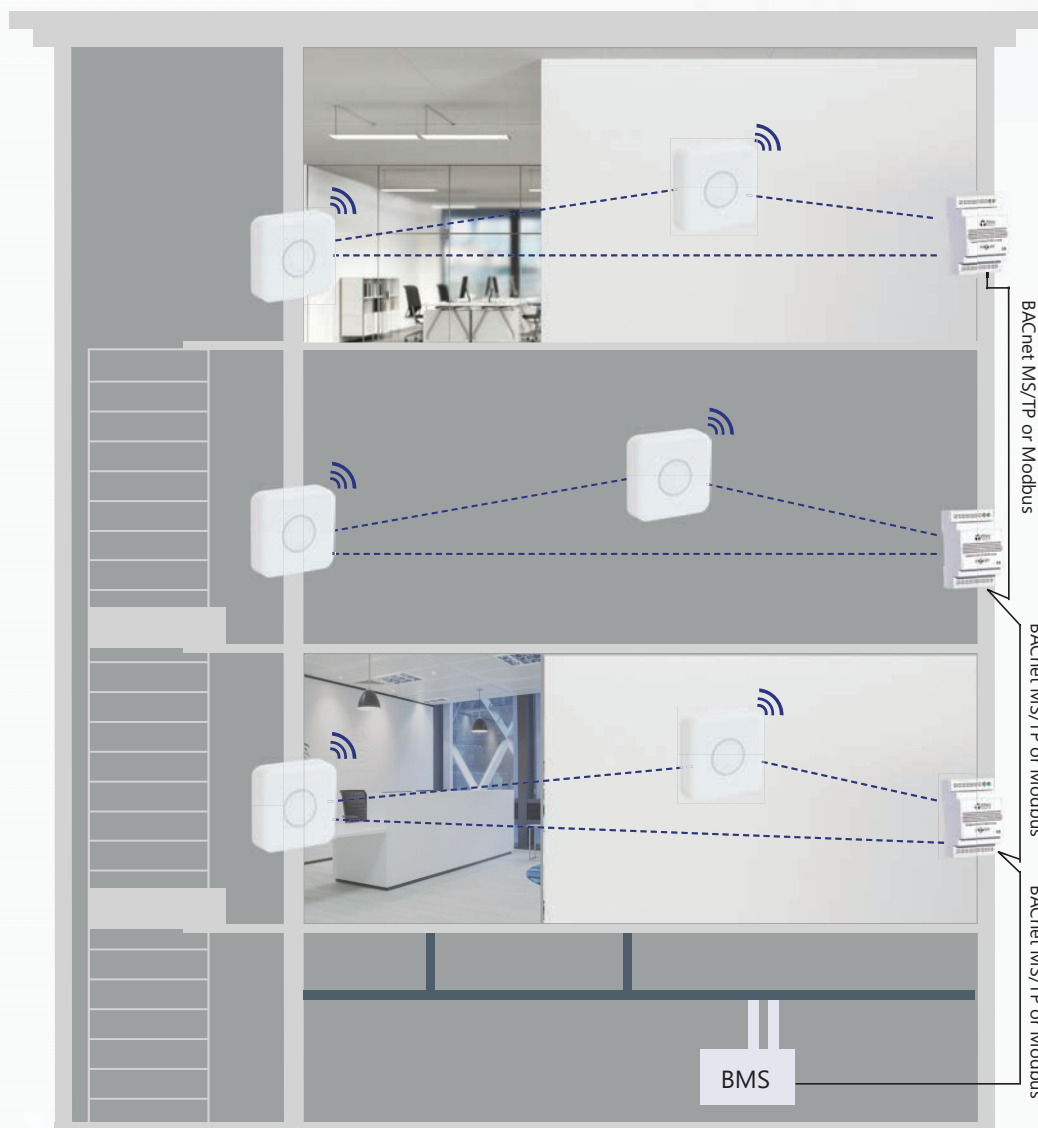
Part No.	Description	£
<b>Smart BACnet Setpoint Adjust with Control</b>		
RTC22b/A/SM/STD/W	Smart Room Temperature set point aduster with 0-10V control (surface mounted standard white finish)	115.00
RTC22b/A/F/BSS*	Smart Room Temperature set point aduster with 0-10V control (flush mounted, grey inner with brushed stainless surround)	108.00
RTC22b/T/SM/STD/W	Smart Room Temperature set point aduster with 24V triac control (surface mounted standard white finish)	115.00
RTC22b/T/F/BSS*	Smart Room Temperature set point aduster with 24V triac control (flush mounted, grey inner with brushed stainless surround)	108.00
*Other surround finishes available on request		

Part No.	Description	£
<b>Smart BACnet &amp; Modbus Outside Sensors</b>		
TPOS-COM	Smart Outside Temperature sensor with BACnet MS/TP and Modbus RTU communications	105.00
TPOHT-COM	Smart Outside Humidity and Temperature sensor with BACnet MS/TP and Modbus RTU communications	125.00
<b>Smart BACnet &amp; Modbus Duct Sensors</b>		
TPDS-S-COM*	Smart Duct Temperature Sensor -150mm probe	95.00
TPDHT-COM	Smart Duct Humidity and Temperature sensor with BACnet MS/TP and Modbus RTU communications	130.00
TPDCO2-COM	Smart Duct CO2 sensor with BACnet MS/TP and Modbus RTU communications	175.00
<b>Smart BACnet &amp; Modbus Strap-On Sensors</b>		
TPCS-RT-COM	Smart Strap-On Temperature sensor with BACnet MS/TP and Modbus RTU communications	115.00
<b>Smart BACnet &amp; Modbus Immersion Sensors</b>		
TPIS-125-COM/NP*	Smart Immersion Temperature Sensor - 125mm probe (no pocket)	95.00
*Other lengths available on request. Contact the sales team for details.		

# WIRELESS: TPZ-NET



The TPZ-Net wireless solution provides on-premise integration of wireless sensors onto building networks. The solution reduces install costs, simplifies commissioning and is built on reliable, building wide communications that are designed for building automation.



### TPZ-Net Room Sensors

Battery powered sensors wireless communicate to a parent TPZ-Net Co-Ordinator.



TPZ-Net Room Temperature Sensor

Part No.	Description	£
Humidity and Temperature Wireless Sensors (TPZ-Net range)		
TPZRHT	TPZ-Net Wireless Room Humidity and Temperature Sensor	89.00
Combined CO2, Temperature and Humidity Sensors (TPZ-Net range)		
TPZRCO2HT	TPZ-Net Wireless Room Carbon Dioxide (CO2), Temperature and Humidity Sensor	140.00

### TPZ-Net Co-Ordinator

Wirelessly collects information from room sensors and repeaters, transferring data to a BMS via BACnet MS/TP or Modbus communications.



TPZ-Net Co-Ordinator

Part No.	Description	£
Co-Ordinators (TPZ-Net range)		
TPZ/CO-ORD/BMS	TPZ-Net Co-Ordinator to communicate directly to a BACnet or Modbus BMS (24V supply)	170.00

### TPZ-Net Repeater

Increases distance between sensors and co-ordinators by repeating the sensor messages and adding mesh networking to the wireless network.



TPZ-Net Repeater

Part No.	Description	£
Repeaters (TPZ-Net range)		
TPZ/REPEATER	TPZ-Net Repeater; designed to improve the distance of communication between the TPZ-Net range of products (24V supply)	115.00

Part No.	Description	£
Commissioning (TPZ-Net range)		
TPZ-COMKIT	TPZ-Net Commissioning Kit (includes USB Dongle and PC Commissioning Software)	99.00
Site Survey Kit (TPZ-Net range)		
TPZ-SSK	Battery powered Site Survey Kit for TPZ-Net Sensor range	390.00
Note: a site survey is highly recommended prior to any wireless installation		

# TEMPERATURE SENSORS

We offer a wide range of resistive, 0-10V and 4-20mA temperature sensors. Designed for a wide range of applications, the sensors cover room, outside, clamp-on, duct and immersion options.

## DESIGNED FOR:



OFFICES



HOSPITALS



SCHOOLS



RETAIL

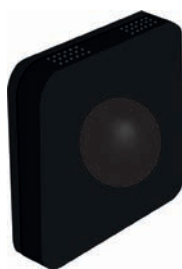






#### GEN 3 ROOM SENSOR

Low cost sensor available in white or black with choice of thermistor



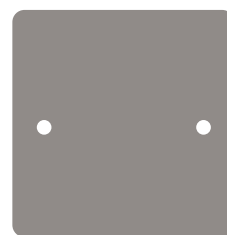
#### BLACK BULB SENSOR

Designed to measure the temperature of radiant heating systems



#### ROOM SENSOR SETPOINT

Gen 2 room temperature sensor with setpoint adjuster



#### ANTI-LIGATURE PLATE SENSOR

The sensor is mounted behind the plate to ensure the product is fully protected

#### BUTTON SENSOR

Button only to provide discreet temperature sensing, also available on a plate



#### DISCREET SENSOR

Designed to be wall mounted, the sensor can be lightly skimmed and painted over

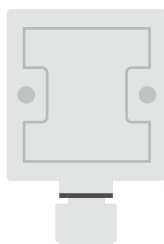


#### FLYING LEAD SENSORS

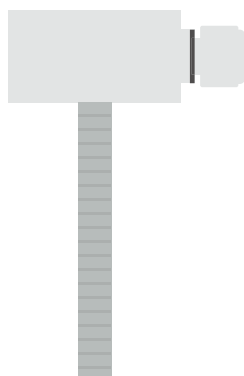
Designed for temperature monitoring in UFH applications, VAV boxes or fan coil units



#### OUTSIDE SENSOR



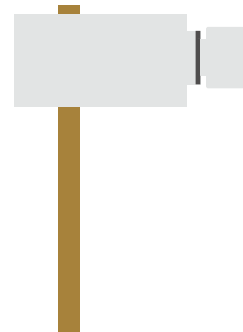
#### CLAMP-ON SENSOR



#### DUCT SENSOR



#### IMMERSION SENSOR



### Gen 3 Room Temperature Sensors

The Gen 3 sensors feature a sleek, modern design creating our slimmest room sensor to date.

Designed to accurately measure internal temperature the sensors are available with choice of thermistor options. For the full list of thermistor types available please contact the sales team.



Gen 3 Room Temperature Sensor



Gen 3 Room Temperature Sensor (Black)

### Black Bulb Temperature Sensor

The Black Bulb Room Temperature Sensor is specifically designed to measure the temperature of radiant heating systems.



Black Bulb Temperature Sensor

### Room Sensor with Setpoint Adjuster

Supplied in our Gen 2 housing, the Room Temperature Sensor with Setpoint Adjuster measures the internal space temperature and offers a 1-11k potentiometer for setpoint adjust.



Room Temperature Sensor with Setpoint Adjuster

Part No.	Description	£
Room Temperature Sensor		
TP-RS-10K3	10K3A1 Room Temperature Sensor (Slimline)	6.90
TP-RS-10K4	10K4A1 Room Temperature Sensor (Slimline)	7.90
TP-RS-20K6	20K6A1 Room Temperature Sensor (Slimline)	8.25
TP-RS-NI1000	NI1000 Room Temperature Sensor (Slimline)	12.50
TP-RS-PT1000	PT1000 Room Temperature Sensor (Slimline)	9.50
Supplied as white as standard. For black enclosures add -B to end of part no.		+2.50

Part No.	Description	£
Black Bulb Temperature Sensor		
TP-RS-BB-10K3	10K3A1 Black Bulb Temperature Sensor	16.00
TP-RS-BB-10K4	10K4A1 Black Bulb Temperature Sensor	16.00
TP-RS-BB-20K6	20K6A1 Black Bulb Temperature Sensor	18.00
TP-RS-BB-NI1000	NI1000 Black Bulb Temperature Sensor	21.00
TP-RS-BB-PT1000	PT1000 Black Bulb Temperature Sensor	20.00

Part No.	Description	£
Room Temperature Sensor with Setpoint Adjuster		
TPTLCR	10K3A1 Room Temperature Sensor with Setpoint Adjuster	20.50
TPALCR	10K4A1 Room Temperature Sensor with Setpoint Adjuster	21.50
TPHLCR	20K6A1 Room Temperature Sensor with Setpoint Adjuster	22.50
TPLCR/NI1000	NI1000 Room Temperature Sensor with Setpoint Adjuster	22.50
TPPT3LCR	PT1000 Room Temperature Sensor with Setpoint Adjuster	22.50

## Button and Plate Sensors

Our Button Temperature Sensors can be supplied either on an attractive plate or with the button only to provide discreet temperature sensing.

For the full list of thermistor types available please contact the sales team.



**Button Temperature Sensor**  
Available in Black, White and Stainless Steel



**Button Temperature Sensor with Plate**  
Available in White or Stainless Steel



**Anti-Ligature Plate Temperature Sensor**  
Available in Stainless Steel

Our Anti-Ligature Plate Temperature Sensors are designed to provide robust, anti-ligature properties when measuring indoor temperature conditions in applications such as hospitals, institutions and prisons. Tamper-proof screws can also be added if required.

## Discreet Temperature Sensor

The Discreet Temperature Sensor can be lightly skimmed and painted over to match any interior colour making it perfect for any residential, commercial or public building application where you require the sensor appearance to be subtle.



**Flush Mounted Discreet Sensor**



**Flush Mounted Discreet Sensor with Flying Lead**

Part No.	Description	£
<b>Black Button Sensors</b>		
TPBS (state element)	Black Button Temperature Sensor (10K3A1 or 10K4A1 Thermistor)	10.50
TPBS (state element)	Black Button Temperature Sensor (20K6A1, Ni1000 or PT1000 Thermistor)	15.50
<b>White Button Sensors</b>		
TPWBS (state element)	White Button Temperature Sensor (10K3A1 or 10K4A1 Thermistor)	9.00
TPWBS (state element)	White Button Temperature Sensor (20K6A1, Ni1000 or PT1000 Thermistor)	14.00
TPWBS/P (state element)	White Button Temperature Sensor with flush white plate (10K3A1 or 10K4A1 Thermistor)	16.00
TPWBS/P (state element)	White Button Temperature Sensor with flush white plate (20K6A1, Ni1000 or PT1000 Thermistor)	23.00
<b>Stainless Steel Button Sensors</b>		
TPSSBS (state element)	Stainless Steel Button Temperature Sensor (10K3A1 or 10K4A1 Thermistor)	8.50
TPSSBS (state element)	Stainless Steel Button Temperature Sensor (20K6A1, Ni1000 or PT1000 Thermistor)	15.00
TPSSBS/P (state element)	Stainless Steel Temperature Sensor with flush Stainless Steel plate (10K3A1 or 10K4A1 Thermistor)	25.00
TPSSBS/P (state element)	Stainless Steel Temperature Sensor with flush Stainless Steel plate (20K6A1, Ni1000 or PT1000 Thermistor)	28.00

Part No.	Description	£
<b>Stainless Steel Anti-Ligature Plate Temperature Sensor</b>		
TPSSPS (state element)	Stainless Steel Temperature Plate Sensor (10K3A1, 10K4A1 Thermistor)	23.00
TPSSPS (state element)	Stainless Steel Temperature Plate Sensor (20K6A1, Ni1000, PT1000 Thermistor)	28.00

Part No.	Description	£
<b>Flush Mounted Discreet Temperature Sensor</b>		
TPFMTS (state element)	Flush Mounted Discreet Sensor	17.00
TPFMTS/FL (state element)	Flush Mounted Discreet Sensor c/w 5m Flying Lead	19.00

## Flying Lead Temperature Sensors

The Flying Lead Temperature Sensor is great for measuring the return and supply of air temperature in fan coils, VAV boxes and small duct applications or as floor limit sensor within underfloor heating applications. All standard Flying Lead Sensors are supplied using Low-Smoke Zero Halogen cabling.



**Flying Lead Temperature Sensor**



**Flying Lead Temperature Sensor with Stainless Steel Cap**

For applications that require more protection than the standard flying lead sensors. The cap is manufactured from high grade 316 stainless steel.



**Submersible Flying Lead Temperature Sensor**

For use in cold water storage tanks and is supplied within a completely waterproof, food safe grade sheathing that protects the sensor when fully submersed.



**Flying Lead Temperature Sensor with PTFE Cabling**

These Flying Lead Sensors are for applications that require a wider operating temperature than the standard flying lead sensors, such as freezers or high temperature applications. These sensors are ideal for measuring temperature conditions with an operating temperature of -40 to +100°C.

The sensors are manufactured from PTFE cabling and include a stainless steel cap.

Part No.	Description	£
<b>Flying Lead Temperature Sensor</b>		
TPTVAV/S	10K3A1 Flying Lead 2 metre	6.25
TPTVAV/L	10K3A1 Flying Lead 5 metre	8.50
TPAVAV/S	10K4A1 Flying Lead 2 metre	7.25
TPAVAV/L	10K4A1 Flying Lead 5 metre	9.50
TPHVAV/S	20K6A1 Flying Lead 2 metre	9.00
TPHVAV/L	20K6A1 Flying Lead 5 metre	11.50
TPVAV/NI1000/S	NI1000 Flying Lead 2 metre	9.00
TPVAV/NI1000/L	NI1000 Flying Lead 5 metre	11.50
TPPT3VAV/S	PT1000 Flying Lead 2 metre	9.00
TPPT3VAV/L	PT1000 Flying Lead 5 metre	11.50
<b>Flying Lead Temperature Sensor with Stainless Steel Cap</b>		
TPTVAV/SS/S	10K3A1 Flying Lead c/w stainless steel cap 2 metre	13.00
TPTVAV/SS/L	10K3A1 Flying Lead c/w stainless steel cap 5 metre	15.00
TPAVAV/SS/S	10K4A1 Flying Lead c/w stainless steel cap 2 metre	13.00
TPAVAV/SS/L	10K4A1 Flying Lead c/w stainless steel cap 5 metre	15.00
TPHVAV/SS/S	20K6A1 Flying Lead c/w stainless steel cap 2 metre	16.00
TPHVAV/SS/L	20K6A1 Flying Lead c/w stainless steel cap 5 metre	18.00
TPVAV/NI1000/SS/S	NI1000 Flying Lead c/w stainless steel cap 2 metre	17.00
TPVAV/NI1000/SS/L	NI1000 Flying Lead c/w stainless steel cap 5 metre	19.00
TPPT3VAV/SS/S	PT1000 Flying Lead c/w stainless steel cap 2 metre	15.00
TPPT3VAV/SS/L	PT1000 Flying Lead c/w stainless steel cap 5 metre	17.00
<b>Submersible Flying Lead Temperature Sensor</b>		
Flying Lead Submersible Temperature Sensor made with food grade polyurethane tube. Temperature range -5 to +70°C		
TPVAV/SUB/2m (state element)	2 metre long with stainless steel cap (all elements)	24.00
TPVAV/SUB/5m (state element)	5 metre long with stainless steel cap (all elements)	26.00
<b>Flying Lead Sensors c/w PTFE Cabling for Low Temperature and High Temperature Applications</b>		
Temperature range -40 to +100		
TPVAV/PTFE/2m (state element)	2 metre long with PTFE Cabling and stainless steel cap (all elements)	23.00
TPVAV/PTFE/5m (state element)	5 metre long with PTFE Cabling and stainless steel cap (all elements)	34.00

## Immersion Temperature Sensors

Our Immersion Temperature Sensors are designed to measure liquid flow temperatures in pipeworks within plant rooms, boiler rooms and chiller rooms. The immersion sensors can be supplied with 125mm or 65mm length probes and come with an IP65 enclosure which is screwed closed for protection.



Immersion Temperature Sensor 125mm



Immersion Temperature Sensor 65mm



Stainless Steel Pocket



Brass Pocket

Part No.	Description	£
<b>Immersion Temperature Sensors (Resistive)</b>		
TPTIS/NP	10K3A1 Immersion Sensor 125mm probe (excludes pocket)	14.50
TPTIS/NP/65	10K3A1 Immersion Sensor 65mm probe (excludes pocket)	15.50
TPAIS/NP	10K4A1 Immersion Sensor 125mm probe (excludes pocket)	15.00
TPAIS/NP/65	10K4A1 Immersion Sensor 65mm probe (excludes pocket)	16.50
TPHIS/NP	20K6A1 Immersion Sensor 125mm probe (excludes pocket)	16.00
TPHIS/NP/65	20K6A1 Immersion Sensor 65mm probe (excludes pocket)	17.50
TPIS/NI1000/NP	NI1000 Immersion Sensor 125mm probe (excludes pocket)	18.00
TPIS/NI1000/NP/65	NI1000 Immersion Sensor 65mm probe (excludes pocket)	19.50
TPPT3IS/NP	PT1000 Immersion Sensor 125mm probe (excludes pocket)	18.00
TPPT3IS/NP/65	PT1000 Immersion Sensor 65mm probe (excludes pocket)	19.50
<b>For chilled water encapsulated sensor add /R to part code</b>		<b>+£7.00</b>
<b>Immersion Temperature Sensors (0-10V and 4-20mA)</b>		
TPVIS/40/NP	Immersion Sensor - 125mm probe -10+40°C (excludes pocket)	58.00
TPVIS/40/NP/65	Immersion Sensor - 65mm probe -10+40°C (excludes pocket)	60.00
TPIS/40/NP	Immersion Sensor - 125mm probe -10+40°C (excludes pocket)	58.00
TPIS/40/NP/65	Immersion Sensor - 65mm probe -10+40°C (excludes pocket)	60.00

Pockets (fit all Titan Products standard Immersion Sensors)		
TPBP125	Brass Pocket 125mm	7.00
TPSP125	Stainless Steel Pocket 125mm	20.00
TPBP65	Brass Pocket 65mm	11.00
TPSP65	Stainless Steel Pocket 65mm	22.00

### Special Immersion Sensors

We can supply a variety of immersion temperature sensors to suit your application. These include immersion sensor probes to fit Satchwell 1204 pocket and L&G pockets. We can also supply immersion sensors with different diameters such as 5mm, as well as probes in bespoke lengths.

Please contact the sales team with your requirements.



## Outside Temperature Sensors

Our Outside Temperature Sensor measures external temperature conditions. As it is exposed to the elements all year round, it is supplied with an IP65 enclosure which is screw closed with the sensor element encapsulated to prevent any damage from condensation or excess moisture forming. This protection on the sensor means it will continue to operate even at low temperatures.



Outside Temperature Sensor

## Duct Temperature Sensors

Our Duct Temperature Sensor measures air flow temperature in duct work areas such as boiler rooms, plant rooms and chiller rooms. The sensor is supplied with either a 150mm or 300mm length probe and an IP65 enclosure, which is screwed closed to protect the sensor.

Special length duct sensors are available along with encapsulated duct sensors on request.



Duct Temperature Sensor 150mm



Duct Temperature Sensor 300mm

Part No.	Description	£
<b>Outside Temperature Sensors (Resistive)</b>		
TPTOS	10K3A1 Outside Sensor (IP65 enclosure)	11.50
TPAOS	10K4A1 Outside Sensor (IP65 enclosure)	12.00
TPHOS	20K6A1 Outside Sensor (IP65 enclosure)	13.00
TPOS/NI1000	NI1000 Outside Sensor (IP65 enclosure)	15.00
TPPT3OS	PT1000 Outside Sensor (IP65 enclosure)	16.00
<b>Outside Temperature Sensor (0-10V and 4-20mA)</b>		
TPVOS/50	0-10V Outside Sensor range -10+40°C (IP65 enclosure)	44.00
TPOS/50	4-20mA Outside Sensor range -10+50°C (IP65 enclosure)	44.00
<b>Solar Guard</b>		
TPSOLG	Solar Guard for Outside Sensors	9.00

Part No.	Description	£
<b>Duct Temperature Sensors (Resistive)</b>		
TPTDS/S	10K3A1 Duct Sensor 150mm probe	14.00
TPTDS/L	10K3A1 Duct Sensor 300mm probe	21.00
TPADS/S	10K4A1 Duct Sensor 150mm probe	15.00
TPADS/L	10K4A1 Duct Sensor 300mm probe	22.00
TPHDS/S	20K6A1 Duct Sensor 150mm probe	16.00
TPHDS/L	20K6A1 Duct Sensor 300mm probe	23.00
TPDS/NI1000/S	NI1000 Duct Sensor 150mm probe	18.00
TPDS/NI1000/L	NI1000 Duct Sensor 300mm probe	25.00
TPPT3DS/S	PT1000 Duct Sensor 150mm probe	18.00
TPPT3DS/L	PT1000 Duct Sensor 300mm probe	25.00
<b>Duct Temperature Sensor (0-10V and 4-20mA)</b>		
TPVDS/40/S	0-10V Duct Sensor range 0+40°C (150mm probe)	55.00
TPVDS/40/L	0-10V Duct Sensor range 0+40°C (300mm probe)	59.00
TPDS/S/40	4-20mA Duct Sensor range -10+40°C (150mm probe)	55.00
TPDS/L/40	4-20mA Duct Sensor range -10+40°C (300 mm probe)	59.00
<b>Mounting Flange</b>		
TPDMF	Duct Sensor Mounting Flange	7.00

## Clamp-On Temperature Sensors

Our Clamp-on Temperature Sensor measures the liquid flow temperature in pipework, within low temperature hot water (LTHW) systems. Chilled water versions are also available which are treated to prevent moisture damage from condensation.

The sensor clamps to the pipework via the supplied banding with the sensing element mounted in the stud that sits against the pipework. It is supplied with an IP65 enclosure which is screwed closed to protect the sensor.

The standard banding is designed to fit pipe diameters of 25 – 125mm. Other banding options available on request.



Clamp-On Temperature Sensor

## Strap-On Temperature Sensors

Our Strap-on Temperature Sensor is designed to allow pipe flow temperatures to be measured using a flying lead, strap-on assembly.

The sensor uses a copper head where the sensing element is held and is strapped to the pipework. The sensor is housed in an IP65 enclosure to protect the sensor and is fixed closed with screws. It is supplied with 2m of cabling between the sensor head and sensor enclosure.



Strap-On Temperature Sensor

Part No.	Description	£
Strap-On Temperature Sensor (Resistive)		
TPTCS	10K3A1 Clamp-On Sensor	18.00
TPACS	10K4A1 Clamp-On Sensor	18.00
TPHCS	20K6A1 Clamp-On Sensor	20.00
TPCS/NI1000	NI1000 Clamp-On Sensor	20.00
TPPT3CS	PT1000 Clamp-On Sensor	22.00
For chilled water encapsulated sensor add /R to part code		+£4.00
Strap-On Temperature Sensor (0-10V and 4-20mA)		
TPVCS/40	0-10V Clamp-On Sensor range -10+40°C	47.00
TPCS/40	4-20mA Clamp-On Sensor range -10+40°C	59.00

Part No.	Description	£
Strap-On Temperature Sensors (Resistive)		
TPCS-RT/10K3	10K3A1 Strap-On Sensor	24.00
TPCS-RT/10K4	10K4A1 Strap-On Sensor	24.50
TPCS-RT/20K6	20K6A1 Strap-On Sensor	26.00
TPCS-RT/NI1000	NI1000 Strap-On Sensor	29.00
TPCS-RT/PT1000	PT1000 Strap-On Sensor	28.00
Strap-On Temperature Sensors (0-10V and 4-20mA)		
TPVCS-RT/40	0-10V Strap-On Sensor range -10+40°C	45.00
TPCS-RT/40	4-20mA Strap-On Sensor range -10+40°C	45.00

# 0-10V CO2 SENSORS

Carbon dioxide (CO<sub>2</sub>) sensors play a vital role in monitoring and controlling indoor air quality levels. While CO<sub>2</sub> sensors are already a valuable tool, those equipped with LED indication, such as our Halo variants, offer the additional benefit of providing real-time visual feedback.



### Gen 3 Room CO2, Temperature & Humidity Sensors

Our Gen 3 Room combined CO2, Temperature & Humidity sensors offer a sleek, modern design creating our slimmest CO2 room sensor to date.



Room Sensor - Slimline



Room Sensor - Halo

### Duct Mounted CO2 Sensor

Our Duct CO2 Sensors measure carbon dioxide levels in extract duct systems and provides a 0-10V signal depending on the CO2 concentration levels within the duct work.



Duct CO2 Sensor

Part No.	Description	£
Room CO2, Temperature & Humidity Sensors		
TP-RS-CO2RHT-V-10K3	Room CO2 Temperature & Humidity Sensor (0-10V CO2, dual 0-10V and 10K3A1 temp and 0-10V humidity) (Slimline)	115.00
Other element types available on request. Contact Titan Products for details and options.		+5.00
Supplied as white as standard. For black enclosures add -B to end of part no.		+2.50

Part No.	Description	£
Room CO2, Temperature & Humidity Sensors with CO2 indication		
TP-RS-CO2RHT-V-10K3-H	Room CO2 Temperature & Humidity Sensor (0-10V CO2, dual 0-10V and 10K3A1 temp and 0-10V humidity) (Halo)	130.00
Other element types available on request. Contact Titan Products for details and options.		+5.00

Part No.	Description	£
Duct Mounted CO2 Sensor		
TPVDCO2	Carbon Dioxide Gas Sensor CO2 (duct mounted) 0-10V output for CO2	215.00

For Smart CO2 Sensors see pages 24- 25

# CO2 INDICATOR

Our Battery Powered CO2 Indicator monitors the carbon dioxide levels in a space and shows these levels via a traffic light LED indicator. Ideal for schools and universities, they provide a visual indication, highlighting if extra ventilation in a space is required.





Battery Powered CO2 Indicator  
with LED HALO

The LED light will change colour based on CO2 concentration levels:



**Below 800ppm**  
Within recommended levels, indicating air quality and ventilation is good



**800 - 1000 ppm**  
As CO2 levels begin to rise amber will indicate action is required soon as air quality worsens.



**Above 1000 ppm**  
Indicates CO2 is above the recommended levels. Increased ventilation is required such as opening a window.



CO2 Indicator

Part No.	Description	£
Battery Powered CO2 Indicator		
TP-IND-CO2	Wireless Battery Powered Room CO2 Indicator - for indication purposes only	99.00

Part No.	Description	£
Stand for CO2 Indicator		
TP-STAND	Optional clear stand for desk mounting the CO2 indicator	6.00

For Wireless CO2 Sensors see pages 26 - 27



# HUMIDITY SENSORS

Our 0-10V and 4-20mA humidity sensors are designed to measure relative humidity within room, outside and duct applications. All sensors provide a second 0-10V or 4-20mA and additional 10K3A1 resistive temperature output as standard.

### Gen 3 Room Temperature & Humidity Sensors

Our Humidity Sensors are designed to measure humidity and temperature conditions via 0-10V or 4-20mA outputs. The sensors are fitted with a 10K3A1 thermistor as standard with other resistive output options available on request.



Room Sensor - Slimline

Part No.	Description	£
Room Temperature & Humidity Sensors		
TP-RS-RH-V-10K3	Room Temperature & Humidity Sensor (dual 0-10V and 10K3A1 temp and 0-10V humidity) (Slimline)	72.00
TP-RS-RH-MA-10K3	Room Temperature & Humidity Sensor (dual 4-20mA and 10K3A1 temp and 4-20mA humidity) (Slimline)	90.00
Other element types available on request. Contact Titan Products for details and options.		+5.00
Supplied as white as standard. For black enclosures add -B to end of part no.		+2.50

### Outside Humidity Sensors



Outside Humidity Sensor

Part No.	Description	£
Outside Humidity Sensors		
TPOHT-RT/10K3	Outside Humidity (4-20mA) and Temperature (4-20mA) 10K3 thermistor also fitted*	107.00
TPVOHT-RT/10K3	Outside Humidity (0-10V) and Temperature (0-10V) 10K3 thermistor also fitted*	107.00
*Other element types available on request. Contact Titan Products for details and options.		

### Duct Humidity Sensors



Duct Humidity Sensor

Part No.	Description	£
Duct Humidity Sensors		
TPDHT-RT/10K3	Duct Humidity (4-20mA) and Temperature (4-20mA) 10K3 thermistor also fitted*	97.00
TPVDHT-RT/10K3	Duct Humidity (0-10V) and Temperature (0-10V) 10K3 thermistor also fitted*	97.00
*Other element types available on request. Contact Titan Products for details and options.		

For Smart Temperature & Humidity Sensors see pages 24- 25

# AIR VELOCITY & AIR PRESSURE

The TPDPT8 and TPAVT8 range provide accurate and multi-range air velocity and air pressure measurement. Our 930 range of low cost differential pressure switching are used in HVAC systems to measure fan status and filter conditions.

## Air Velocity Transmitters

Offers two selectable ranges for measuring air velocity accurately within air ducts.



TPAVT8



Multi-Point Probe

Part No.	Description	£
<b>Air Velocity Transmitter 0-10V and 4-20mA output</b>		
TPAVT8/10	2 ranges 0-5m/s and 0-10m/s Air Velocity Transmitter	105.00
TPAVT8/10/D	2 ranges 0-5m/s and 0-10m/s Air Velocity Transmitter c/w Display	155.00
TPAVT8/10/IP65	2 ranges 0-5m/s and 0-10m/s Air Velocity Transmitter c/w IP65 housing	115.00
TPAVT8/28	3 ranges 0-15m/s, 0-20m/s and 0-28m/s Air Velocity Transmitter	105.00
TPAVT8/28/D	3 ranges 0-15m/s, 0-20m/s and 0-28m/s Air Velocity Transmitter c/w Display	155.00
TPAVT8/28/IP65	3 ranges 0-15m/s, 0-20m/s and 0-28m/s Air Velocity Transmitter c/w IP65 housing	115.00
<b>Air Velocity Transmitter BACnet/Modbus output</b>		
TPAVT8/10-COM	2 ranges 0-5m/s and 0-10m/s Air Velocity Transmitter	140.00
TPAVT8/28-COM	3 ranges 0-15m/s, 0-20m/s and 0-28m/s Air Velocity Transmitter	140.00

Part No.	Description	£
<b>Air Velocity Probe Multi-Point Probe</b>		
TPVPMP/100	Air Velocity Multi-Point Probe - 100mm	22.00
TPVPMP/200	Air Velocity Multi-Point Probe - 200mm	24.00
TPVPMP/300	Air Velocity Multi-Point Probe - 300mm	26.00
TPVPMP/400	Air Velocity Multi-Point Probe - 400mm	29.00
TPVPMP/500	Air Velocity Multi-Point Probe - 500mm	31.00

## Differential Pressure Transmitters

All TPDPT8 transmitters have selectable pascal ranges to suit different applications and provide accurate differential pressure monitoring. The standard sensor housing is IP51 rated with an option for LCD display. An IP65 rated TPDPT8 is also available.



TPDPT8



TPDPT8 with Display



TPDPT8 IP65 Enclosure

## Differential Pressure Switches

Our 930 range of low differential pressure switches is used in air conditioning systems to measure fan status and filter conditions.



930-80-ATP-300

Part No.	Description	£
Differential Air Pressure Transmitters with Positive Only Selection		
TPDPT8/125	4 ranges 0-25, 0-50, 0-100, 0-125Pa with Positive only selection	95.00
TPDPT8/500	4 ranges 0-200, 0-300, 0-400, 0-500Pa with Positive only selection	95.00
High Accuracy Differential Air Pressure Transmitters with Positive/Negative Selection		
TPDPT8/125-HA	4 ranges 0-25, 0-50, 0-100, 0-125Pa with Positive/Negative selection	105.00
TPDPT8/125-HA/D	4 ranges 0-25, 0-50, 0-100, 0-125Pa with Positive/Negative selection c/w display	155.00
TPDPT8/125-HA/IP65	4 ranges 0-25, 0-50, 0-100, 0-125Pa with Positive/Negative selection c/w IP65 enclosure	115.00
TPDPT8/500-HA	4 ranges 0-200, 0-300, 0-400, 0-500Pa with Positive/Negative selection	105.00
TPDPT8/500-HA/D	4 ranges 0-200, 0-300, 0-400, 0-500Pa with Positive/Negative selection c/w display	155.00
TPDPT8/500-HA/IP65	4 ranges 0-200, 0-300, 0-400, 0-500Pa with Positive/Negative selection c/w IP65 enclosure	115.00
Differential Air Pressure Transmitters with Positive/Negative Selection		
TPDPT8/2500	4 ranges 0-1000, 0-1500, 0-2000, 0-2500 with Positive/Negative selection	105.00
TPDPT8/2500/D	4 ranges 0-1000, 0-1500, 0-2000, 0-2500 with Positive/Negative selection c/w display	155.00
TPDPT8/2500/IP65	4 ranges 0-1000, 0-1500, 0-2000, 0-2500 with Positive/Negative selection c/w IP65 enclosure	115.00
Smart Differential Air Pressure Transmitters with BACnet MS/TP & Modbus Comms		
TPDPT8/125-HA-COM	4 ranges 0-25, 0-50, 0-100, 0-125Pa with Positive/Negative selection	140.00
TPDPT8/500-HA-COM	4 ranges 0-200, 0-300, 0-400, 0-500Pa with Positive/Negative selection	140.00
Sensor Accessories		
TP/TUBE/4mm	PVC clear tube for use with TPDPT8/125 or 500, including HA models (price per metre)	1.50
TP/TUBE/5mm	PVC clear tube for use with TPDPT8/2500 Transmitters (price per metre)	1.00
TP/P-ADT	Plastic Duct Adaptor for PVC tube (price each)	1.50

Part No.	Description	£
Differential Air Pressure Switches		
930-80-ATP-300	Range 20-300 Pascals	18.00
Differential Air Pressure Switches with IP65 Housing		
930-80-ATP-300/IP65	Range 20-300 Pascals (IP65 option)	38.00
Mounting Brackets		
930-BRACKET-L/M	Metal 930 Bracket	4.50
930-BRACKET-L/P	Plastic 930 Bracket	4.50



# LIGHT LEVEL

Both our internal and external light level sensors are designed for installation in commercial and industrial properties. They're designed to sense light levels and provide a scaled output.

## Light Level Transmitters



Internal Light Level Transmitter



External Light Level Transmitter

Part No.	Description	£
Internal Light Level Transmitter		
TPVLLR	Internal Light Level Transmitter (0-10V output, range selectable) Gen 2 Housing.	48.00

Part No.	Description	£
External Light Level Transmitters		
TPVLLO	External Light Level Transmitter (IP65 enclosure 0-10V output, range selectable)	52.00
TPLLO	External Light Level (IP65 enclosure 4-20mA loop output, range selectable)	52.00

# LIQUID DETECTION

Our liquid detection range comprises of a Liquid Detection Module and sensors such as our rain detection sensor. Upon detecting liquid the module provides a switched output allowing an alarm to be raised.

## Liquid Flood/Rain Detection



**LDM1**

This module is available in 24V or 240V supply versions and can be used with sensors specifically made to operate with conductive liquids.



**TPRD1**

Detects the presence of rain and incorporates a heater to evaporate any residual moisture after a rainfall, which speeds up the dry detection rate.

Part No.	Description	£
<b>Liquid Detection Modules</b>		
LDM1/24	Liquid Detection Module with single changeover relay for rain/flood applications 24V supply	43.00
LDM1/240	Liquid Detection Module with single changeover relay for rain/flood applications 240V supply	48.00
<b>Flood Detection Probe</b>		
TPFD/P	Liquid/Flood Detector Probes stainless steel with IP65 termination box	29.00
<b>Rain Detectors</b>		
TPRD1	Rain Detector IP65 housing for use with LDM modules	35.00
TPRD1/A	Rain Detector IP65 housing compatible with our Natural Ventilation BACnet controllers	60.00

# IO MODULES

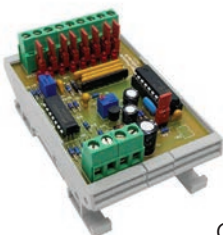
We manufacture a wide selection of IO Modules including digital input modules, analogue output modules, analogue to relay output modules, digital output relay modules and single/double pole relays.

## Digital Output Modules



IO/DIM4

Converts 4 digital input signals into a single multiplexed/analogue output



IO/DIM6-8

Converts 6 or 8 digital input signals into a single multiplexed 0-10V or 4-20mA output

Part No.	Description	£
<b>Digital Input Multiplexers</b>		
IO/DIM4	4 x Volt free Digital inputs providing 0-10V output (24V AC or DC supply)	29.00
IO/DIM4/OI	4 x Opto isolated inputs 50V max providing 0-10V output (24V AC/DC supply)	31.00
IO/DIM6-8	6 or 8 Volt free Digital inputs providing 0-10V or 4-20mA output (24V AC or DC supply)	46.00

## Analogue Output Modules



IO/AX4.1

Converts a 0-10V input signal to 4 x 0-10V outputs in parallel or 3 outputs in sequence



IO/AX4.1S

Converts a 0-10V input signal to 2, 3 or 4 x 0-10V outputs operating in sequence

Part No.	Description	£
Analogue Output Modules		
IO/AX4.1	0-10V input to 4 x 0-10V outputs in unison or 3 outputs in sequence (24V AC/DC supply)	60.00
IO/AX4.1/S	0-10V input selectable 2, 3 or 4 x 0-10V outputs in sequence (24V AC/DC supply)	60.00

## Analogue to Relay Output Modules



IO/1RM

Converts a 0-10V signal to digital relay control with a fixed switching point



IO/ARM

Converts a 0-10V signal to digital relay control with an adjustable switching point



IO/2RM

Converts a 0-10V control signal to 2 stage digital relay switching



IO/RM3

Converts a 0-10V control signal to 3 stage digital relay switching

Part No.	Description	£
Analogue to Relay Output Modules		
IO/1RM	0-10V Signal Providing Single Relay Control (24V AC or DC supply)	17.00
IO/ARM	0-10V Signal with Adjustable Switching Relay and slave 0-10V (24V AC or DC supply)	24.00
IO/2RM	0-10V Signal Providing Raise/Lower, High/Low, Binary and TPC Control (24V AC or DC supply)	28.00
IO/RM3	0-10V Signal Input Providing 3 Stage Control or Heat/Cool Control (24V AC/DC supply)	32.00

## Digital Output Relay Module



IO/DOM4

Converts a 0-10V control signal to  
4 x volt free relay outputs

Part No.	Description	£
Digital Output Relay Modules		
IO/DOM4	0-10V Signal Binary and Sequence of 4 volt free Changeover Relays (24V AC/DC supply)	46.00

## Window Actuator Positioning Module



IO/AD3W

Provides an interface between  
the 0-10V control signals and DC  
reverse operation/actuators

Part No.	Description	£
Window Actuator Positioning Module		
IO/AD3W/5-75	Window Actuator Positioning Module. Converts 3 x 0-10V inputs to 3 x 24VDC Drive outputs. Drive time of 5-75 seconds.	75.00
IO/AD3W/20-100	Window Actuator Positioning Module. Converts 3 x 0-10V inputs to 3 x 24VDC Drive outputs. Drive time of 20-100 seconds.	75.00
IO/AD3W/30-110	Window Actuator Positioning Module. Converts 3 x 0-10V inputs to 3 x 24VDC Drive outputs. Drive time of 30-110 seconds.	75.00

## Single & Double Pole Relays

Our single relay modules can be used to isolate controller outputs for switching plant and equipment. The single relay modules are available with single and double pole changeover contacts and with various coil voltages.



SRM/SP

Single pole Switching Relay

Part No.	Description	£
Single Relays		
SRM/SP/12DC	Single pole Switching Relay rated 8 amp inductive (12V DC supply)	4.80
SRM/SP/24AC	Single pole Switching Relay rated 10 amp inductive (24V AC supply)	5.50
SRM/SP/240AC	Single pole Switching Relay rated 10 amp inductive (240V AC supply)	7.50

Double Pole Relays		
SRM/DP/12DC	Double pole Switching Relay rated 5 amp inductive (12V DC supply)	8.00
SRM/DP/24AC	Double pole Switching Relay rated 5 amp inductive (24V AC supply)	9.00
SRM/DP/240AC	Double pole Switching Relay rated 5 amp inductive (240V AC supply)	11.00



## Re-Scaling and Signal Converter

The IO/RSM is designed to re-scale and convert analogue control signals. The module is capable of accepting inputs and providing outputs of 0-5V, 0-10V, 0-20mA, 4-20mA or a 3 wire potentiometer with a minimum value of 100 ohms.



IO/RSM/I  
Re-Scaling & Signal Converter Module

Part No.	Description	£
Re-Scaling and Signal Converters		
IO/RSM/I	Input Rescaling Module with galvanic isolation	92.00

## Power Supplies



Din Rail Mounted Power Supply

Low cost 240V power supply to provide 24V AC for various low voltage control applications. Incorporates fuse protection with a self resetting fuse. Rated at 0.5 amp at 24V.

Part No.	Description	£
Power Supplies		
240AC/24AC/12VA	Power Supply 12VA 240V AC - 24V AC DIN enclosure	40.00
T24AC/DC/CG	24V AC to DC Converter for common ground applications	30.00



AC to DC Converter

Our AC to DC converter is a low cost DIN rail mounted power supply to provide a regulated 24 Volt DC supply from 24 Volt AC input.

# STANDALONE INTERFACES

We offer a wide range of standalone user interfaces ranging from simple set point adjusters to extension timers and remote alarm panels.

Bespoke interfaces are also available on request. Contact Titan with your requirements.



### Remote Setpoint Adjusters

Designed for surface mount assembly, our Remote Setpoint Adjuster is available with resistance potentiometer or with 0-10V output. Supplied with +/- engraving as standard.



### Extension Timers

Designed to extend the normal run-time period of a system, the touch sensitive extension timer operates a set of normally open volt free contacts.



### Window Positioning Unit

Designed to be used as a user interface in conjunction with Titan Products natural ventilation BACnet controllers. The flush single gang plate is designed to override the window or ventilation position within a natural ventilation BACnet system.



### Remote Alarm Panel

The RMP incorporates an audible and visual LED indication when an alarm is present with a push button to mute the audible alarm.

Part No.	Description	£
<b>Remote Setpoint Adjusters</b>		
RSA/+ -	Room Enclosure (1-11k) engraved +/-	23.00
RSA10V/+ -	Room Enclosure (0-10V) engraved +/-	25.00

Part No.	Description	£
<b>Extension Timers</b>		
TPEXT1/6/24V	0-6 hour Extension Timer with VFC relay, LED indication & remote start option 24V supply	54.00

Part No.	Description	£
<b>Window Positioning Unit</b>		
TPRS/ACO/W	Window positioning unit, white surface mounted room enclosure closed/auto/open	54.00
TP/ACO/F/W	Window positioning unit, white flush mounted closed/auto/open	65.00

Part No.	Description	£
<b>Remote Alarm Panel</b>		
RMP/24	24V AC wire, LED, buzzer, mute button, delay setting.	54.00

**Titan Products Ltd.** 15 Latham Close, Bredbury Park Ind. Estate,  
Stockport, Cheshire, SK6 2SD

Tel: +44 (0) 161 406 6480    Email: [sales@titanproducts.com](mailto:sales@titanproducts.com)

[www.titanproducts.com](http://www.titanproducts.com)