

Intrinsically Safe

# PLC

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**PLC**

Our Intrinsically Safe (I.S) Programable Logic Controller (PLC) is an industry 1<sup>st</sup> for Group I Zone 0, with fiber-optic Ethernet / IP connection.

Typical applications include:

- ✓ I.S Automation control systems
- ✓ I.S Safety shutdown systems
- ✓ I.S Safety startup systems
- ✓ Event/data logging systems
- ✓ Nautitech's I.S UPS & I.S Power Supplies



## Control Zone 0



# APPLICATIONS

The I.S PLC is a modular component of an automation system & is supported by Nautitech's range of certified complimentary components allowing the construction of complex systems. This includes power supplies, uninterruptible power supplies, temperature sensors, pressure sensors, float sensors, gas detection & piezo air valves.

## TYPICAL APPLICATION



PSM

UPS

PLC

I/O

I/O

### DID YOU KNOW...

Our I.S modules stack together in any order to suit any application.



## SPECIFICATIONS

ITEM	PLC
Field Bus ports (CANOPEN)	Optional x2
Backplane ports (CANOPEN)	✓ x2
Fibre optic port (100 Base FX)	Optional x1
Data logging	Optional
Bluetooth programming port	✓
Lock step logic engine	✓
Diagnostic coverage	✓
Integrated display	✓
Keypad entry	✓
IEC61131 programming	✓
Real time clock	✓
4Mb application RAM	✓
4Mb application FLASH	✓
Crocodile scale enclosure	✓
IP66 ingress protection	✓
Branding	Optional

The PLC sources its power from Nautitech's I.S Power Supply Module (PSM).

Internal backplane & supplies power to 2 external Field Bus Connectors. This is used to power I.S transceiver & Isolation Barriers.

It contains wireless, blue-tooth communications circuits & input/output optical communications circuits.

OUTPUT  
 $U_o = 9V$   
 $I_o = 2.5A$

INPUT  
 $U_i = 9V$   
 $C_i = 5.5\mu f$   
 $L_i = \text{Neg}$

$-20C < T_a < 60C$

Rated Voltage: 7-8.5V

## CERTIFICATIONS



✓ Intrinsically Safe Ex ia I Ma  
 IECEx ITA 14.0037X

It is recommended that only Nautitech ancillary equipment be used which is listed in our product manuals. Doing otherwise may result in less than optimal operating performance or failure of which Nautitech will not be held responsible for.