

iSmart: the intelligent choice for precise control...

two sizes, three types: ac or dc power

Providing the capability of a small plc, iSmart is a flexible, easy to use range of intelligent relays.

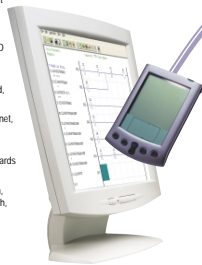
Base modules come with either 10 or 20 I/O points expandable up to 44 (including four analogue) by adding a maximum of three 4-input, 4-output plug-in expansion modules. A high speed comms option is also available for even greater expandability. Comms module options include Modbus, DeviceNet, Profibus or Ethernet.

With the free software provided, iSmart 'intelligent' relays can be programmed via a PC, PDA (pocket PC) or the integral keypad, using Relay Ladder (LD) or Function Block Diagram (FBD).

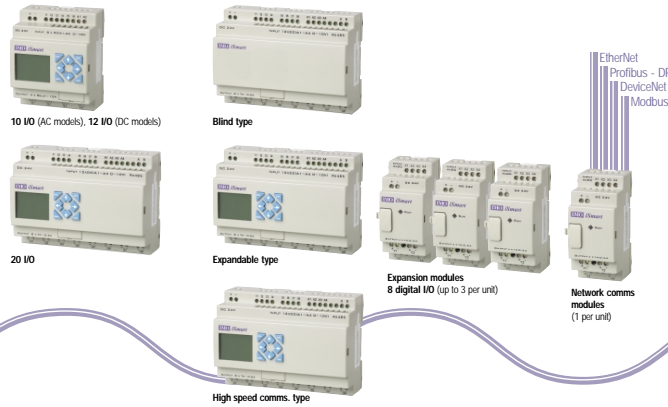
Flexible, easy to use and highly cost-effective, iSmart is ideal for small machine applications including automatic doors, packaging machines, vending machines...

- From 10 to 44 I/O
- Custom high speed processor
- Two options blind or with integral back light display and programmer
- 15.4 line by 12 character messages can be displayed
- 8 Amp output switching capability
- Up to 4 Analogue inputs
- 2 1KHz High speed inputs
- Programmable in either relay ladder or Function Block Diagram (FBD)
- 200 lines relay ladder or 99 Function Blocks
- Easy to use free of Charge programming software offering program simulation for Windows 98, 2000, XP and Pocket PC

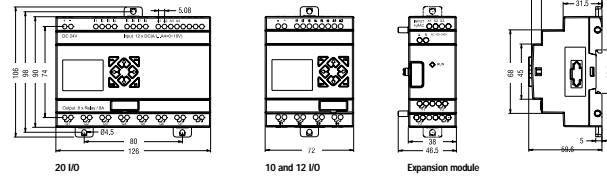
- Real Time Clock (RTC)
- 1 Pulse width modulation output (PWM) for position control
- Memory module option
- Communication interface to I/O HMI's or Computer
- High Speed Data Link Modbus enabling remote I/O to be linked, and PC
- Fieldbus communications Ethernet, Profibus DP Slave, DeviceNet, Modbus
- Conforms to international standards CE, UL, and c-UL
- Multilanguage capability English, German, French, Italian, Spanish, Portuguese, and Chinese
- DIN rail mountable



Free programming software for PC or PDA (pocket PC)



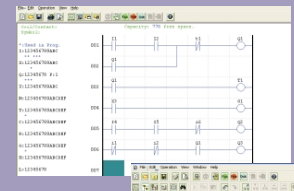
dimensions



FREE software



Configurator, iSmart's free powerful programming software is available for both PC and PDA (pocket PC) and offers two methods of programming...

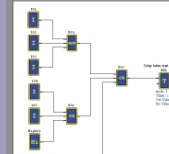


Relay Ladder (LD)

Up to 200 lines of instructions with 4 instructions per line, giving a total of 800.

Function Block Diagram (FBD)

Up to a total of 99 blocks can be programmed.

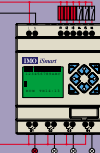


Powerful diagnostics

Using iSmart Configurator, programmes can be simulated in either LD or FBD modes. Even the keypad and display can be simulated - ideal for proving designs at your desk.

On line monitoring

iSmart Configurator also provides on line monitoring in both LD or FBD modes for rapid fault recognition and diagnosis.



actual size

Bright backlight
4 line x 16 character
LCD display

Optional programming cable

Integral programming and monitoring keypad

8 Amp relay outputs

MEMORY
Flash memory option

DD 24V INPUT B x DC1A, LA2 0-10V

OUTPUT 4 x RELAY BA MEMORY

BMT-EO-R12

ordering codes

DC iSmart models

Model No.	Total I/O	Digital DC	Analog Output
LD-R12	12	6	2 4bitDc
BD-R12	12	6	2 4bitDc
LD-T12	12	6	2 4bitTrns
LD-R20	20	8	4 8bitDc
BD-R20	20	8	4 8bitDc
LD-R20	20	8	4 8bitDc
LD-T20	20	8	4 8bitTrns

DC expansion modules

Model No.	Total I/O	Digital DC	Analog Output
MD-08	8	4	4 8bitDc
MD-16	8	4	4 8bitTrns

AC iSmart models

Model No.	Total I/O	Digital AC	Analog Output
LA-R10	10	6	4bitDc
BA-R10	10	6	4bitDc
LA-R20	20	12	8bitDc
BA-R20	20	12	8bitDc
LA-R20	20	12	8bitDc

AC expansion module

Model No.	Total I/O	Digital AC	Analog Output
MA-R8	8	4	4bitDc

Accessories

SMT-PC03	Programming cable
SMT-PR04-usb	USB Programming cable
SMT-PR04	Memory module
SMT-Configurator	PC programming software
SMT-PCN Configurator	Packet PC programming software



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Can Switches
On Terminals
Protectors
Prohibit control IO
Relays & Switches
RSC & RSD
Motor Control Modules
Motor Control Units
Phase Motors
Relays
Signal Conditioning
Sockets
Timers
Transformers & Power Supplies



Drives
Inverter Terminals/IO
Limit Switches
Protections Switches
RSC
Priority Switches
Temperature Controls
PLCs
Signal Conditioning
Temperature Controls



Data Acquisition & Control
Drives
Inverter Terminals/IO
Limit Switches
Protections Switches
Priority Switches
PLCs
Signal Conditioning
Temperature Controls



Lightguards
Safety Limit Switches
Safety Relays
As IMO products are tested and approved to relevant international quality standards.



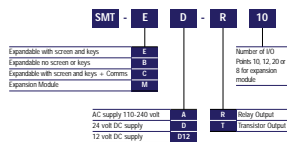
Inverter 0.37-500W
Inverter 0.37-7.5kW
Inverter 0.37-20kW



Auxiliary Devices
On-board
Order programming
12V & 7 seg. display
PC Terminal Blocks
Relays - automotive
Relays - power
Relays - signal
Switches



iSmart numbering system



specification

Common

Programme memory	LD: 200 lines, FBD: 99 blocks
LCD display (lines x characters)	4 x 12
Enclosure type	IP20
Maximum vibration	1.0G
Operating temperature range	0 to 55°C
Storage temperature range	-40 to 70°C
Maximum humidity (static, non-condensing)	90%
Approvals	UL, cUL, CE

DC models

Input power voltage range: 12Vdc	10.2-13.8Vdc
Input power voltage range: 24Vdc	21.6 - 26.4Vdc
Output relay contact rating (at 25°C, resistive)	8.3A (250V)
Input signal voltage threshold: ON, OFF	>15, <-5Vdc
Input signal delay time: ON to OFF, OFF to ON	3.5ms

AC models

Input power voltage range: 50/60Hz	85 - 265Vac
Output relay contact rating (at 25°C, resistive)	8.3A (250V)
Input signal voltage threshold: ON, OFF	>7V, <-4Vdc
Input signal delay time: ON to OFF, OFF to ON	50-90°/50-90°ms (240V/220V)

iSmart
Intelligent relays

IMO

PROCESS