

Altech Smart Relay

Altech's Smart Relay comprises 2 base modules featuring an AC and DC version including 8 Inputs and 4 Relay Outputs. Each allows for up to 3 Expansion module to be connected for a maximum of 32 Inputs and 16 Outputs. Fast and easy setup and Programming is done thru a free software available for download from the Altech website. An additional Communication Modules allows communication with remote devices.

Altech Corp.®



Standards and Certifications

- UL 508
- IEC 61000-3-2
- IEC 61000-4-2-1~11

Features

- Supports upto 48 I/Os (32 digital inputs & 16 digital outputs)
- DST Feature Available
- Backlit LCD Screen for display & modification of pre-selected parameters of functional blocks, viewing I/O status and programming on the device
- PC software for programming, online & offline simulation, documentation & printing
- Designed for use in automation for commercial & Industrial sectors
- Modbus Communication

Programming Features

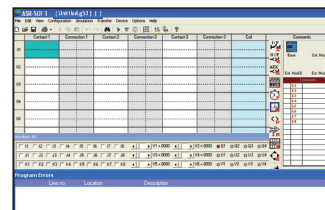
- 250 lines of ladder programming
- 16 soft text messages, Time Switches, Compare Counters, Timers, Counters & 12 analog functions

Function Blocks

Timers:	16 (ON Delay, Interval, Cyclic ON-OFF, OFF Delay)
Counters:	16 (Up/Down, Retentive selectable)
Time Switches:	16 (Weekly / Daily)
Compare Counters:	16
Analog Functions:	12 (DC Model)
Soft Text Messages:	16 (Priority Driven)
Auxiliary Relays:	32



FREE SOFTWARE DOWNLOAD



AltechCorp.com/SmartRelay

Starter Kits



CAT. NO

Includes

Base Module
Programming Software
Programming Cable

ASR-B120AC-START

ASR-B120AC
ASR-SOFT
ASR-USB

ASR-B24DC-START

ASR-B24DC
ASR-SOFT
ASR-USB

Technical Specifications

I/O Extensions (Max.)		3
Utilization Category	AC-15	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A
	DC-13	Rated Voltage (Ue): 24/125/250 V, Current (Ie): 2.0/0.22/0.1 A
Power Reserve (For Clock Only)		150h at -10°C to +55°C
Operating Temperature		-10°C to +55°C
Storage Temperature		-25°C to +70°C
Humidity (Non Condensing)		95% (Rh)
Enclosure		Flame Retardant UL 94-V0
Mounting		Base / DIN Rail
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure



Base Module



Expansion Module

Base Module

CAT. NO

ASR-B120AC

Supply Voltage (-20% to + 10%)	110-240 VAC (50/60Hz)
Power Consumption	5W
Max. Supply current	36 mA
Digital Inputs	8
Digital Input Range	(0-40VAC) OFF, (80-265VAC) ON
Analog Inputs	N/A
Analog Input Range	N/A
Digital Relay Output	4 NO (8A@240V AC, 5A@30V DC)
Weight	0.51 lb. (230 g)

ASR-B24DC

Supply Voltage (-20% to + 10%)	12-24 VDC
Power Consumption	5W
Max. Supply current	360 mA
Digital Inputs	6
Digital Input Range	(0-4VDC) OFF, (8-26.4VDC) ON
Analog Inputs	2 (can be used as Digital Inputs)
Analog Input Range	0 to 10 VDC
Digital Relay Output	4 NO (8A@240V AC, 5A@30V DC)
Weight	0.51 lb. (230 g)

Expansion Module

CAT. NO

ASR-E120AC

Digital Inputs	8
Digital Input Range	(0-40VAC) OFF, (80-265VAC) ON
Analog Inputs	N/A
Analog Input Range	NA
Digital Relay Output	4 NO (8A@240V AC, 5A@30V DC)
Weight	0.5 lb. (225 g)

ASR-E24DC

Digital Inputs	6
Digital Input Range	(0-4VDC) OFF, (8-26.4VDC) ON
Analog Inputs	2 (can be used as Digital Inputs)
Analog Input Range	0 to 10 VDC
Digital Relay Output	4 NO (8A@240V AC, 5A@30V DC)
Weight	0.5 lb. (225 g)

RS485 Communication Module (including communication cable)

Input	TTL Level
Output	RS-485 protocol (two wires, D+, D-)
Number of Nodes	32 standard unit loads
Isolation Voltage	2000 Vrms
Baud Rate	300, 600, 1200, 2400, 4800, 9600
Operating temperature	-10°C to +55°C
Storage temperature	-20°C to +70°C
LED Indicators	Red LED's for Tx & Rx. Green LED for Power indication
Weight	0.19 lb. (84 g)



Communication Cable

CAT. NO

ASR-C485-120AC

Supply Voltage	110-240 VAC
Weight	0.18 lb. (80 g)

ASR-C485-24DC

Supply Voltage	12-24 VDC
Weight	0.19 lb. (84 g)

Software & Accessories



CAT. NO

ASR-SOFT

Programming Software

ASR-MC

Memory Card

ASR-USB

USB Cable

ASR-RS232

Serial RS232 Cable

SUPPLY, INPUT & OUTPUT CONNECTIONS

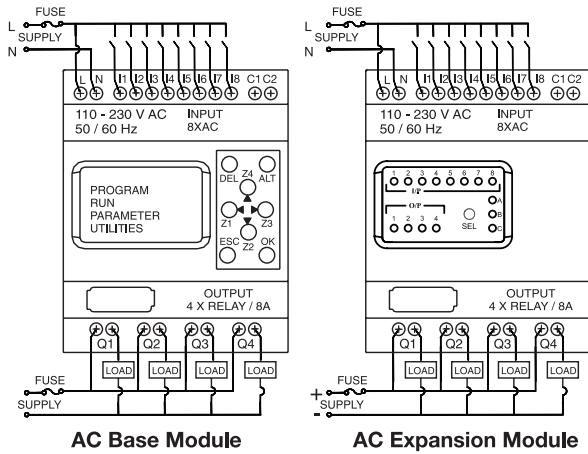


Fig. 1

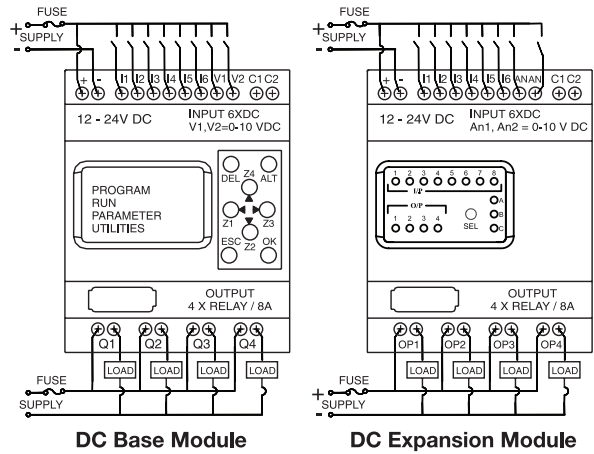


Fig. 2

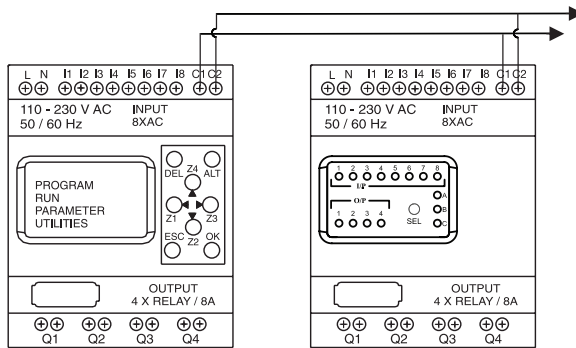


Fig. 3

Connection Between Base Module & Expansion

Same for both AC & DC

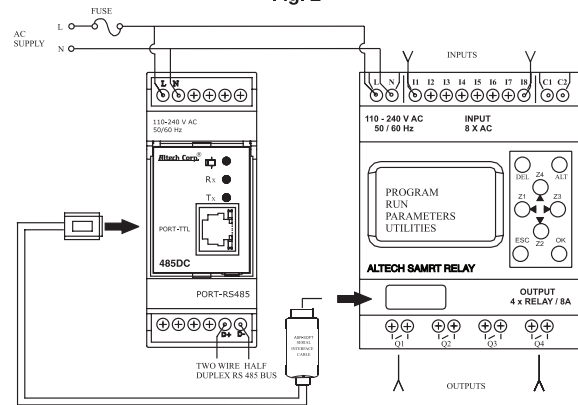


Fig. 4

Connection Between Base Module & Communication Module

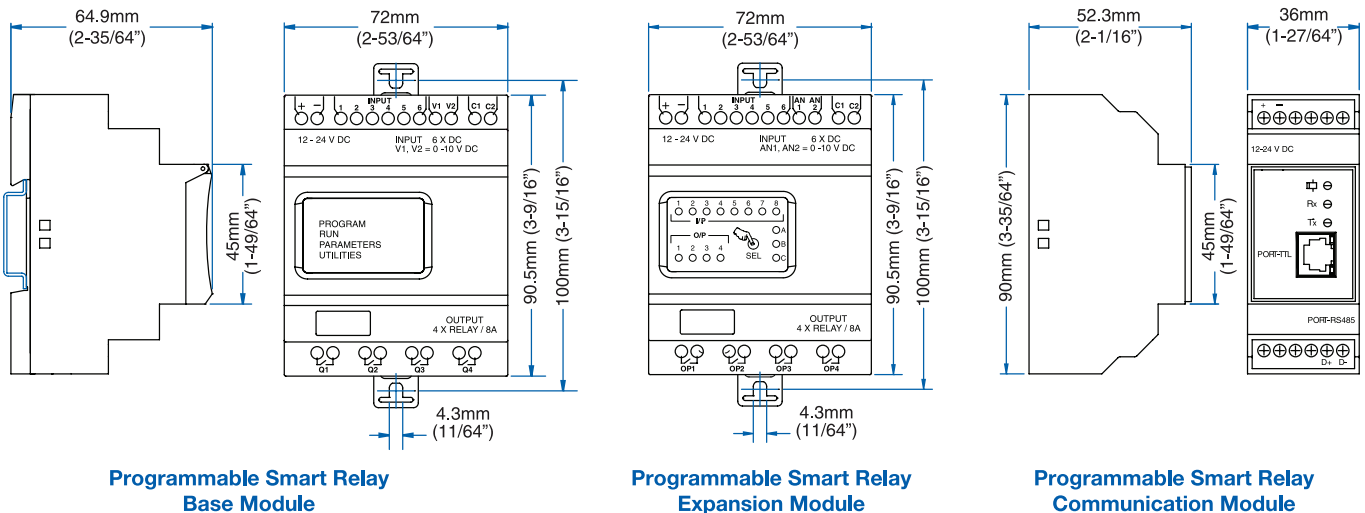
Power Supply Wiring

1. Although the Altech Smart Relay has been designed to withstand the negative effects of any electrical noise that might be present its power supply. It may be necessary to insert an isolation transformer between the supply and line terminals of the Altech Smart Relay.
2. While using the DC Altech Smart Relay, run the 24 VDC Input line separate from 100 ~240V AC power lines.

Wiring of Input/Output

1. Separate input and output lines.
2. When the output lines are running close to power supply or input lines, use shielded wires and ground them.

Mounting Dimensions



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Altech:](#)

[ASR-E120AC](#) [ASR-C485-120AC](#) [ASR-C485-24DC](#) [ASR-SOFT](#)