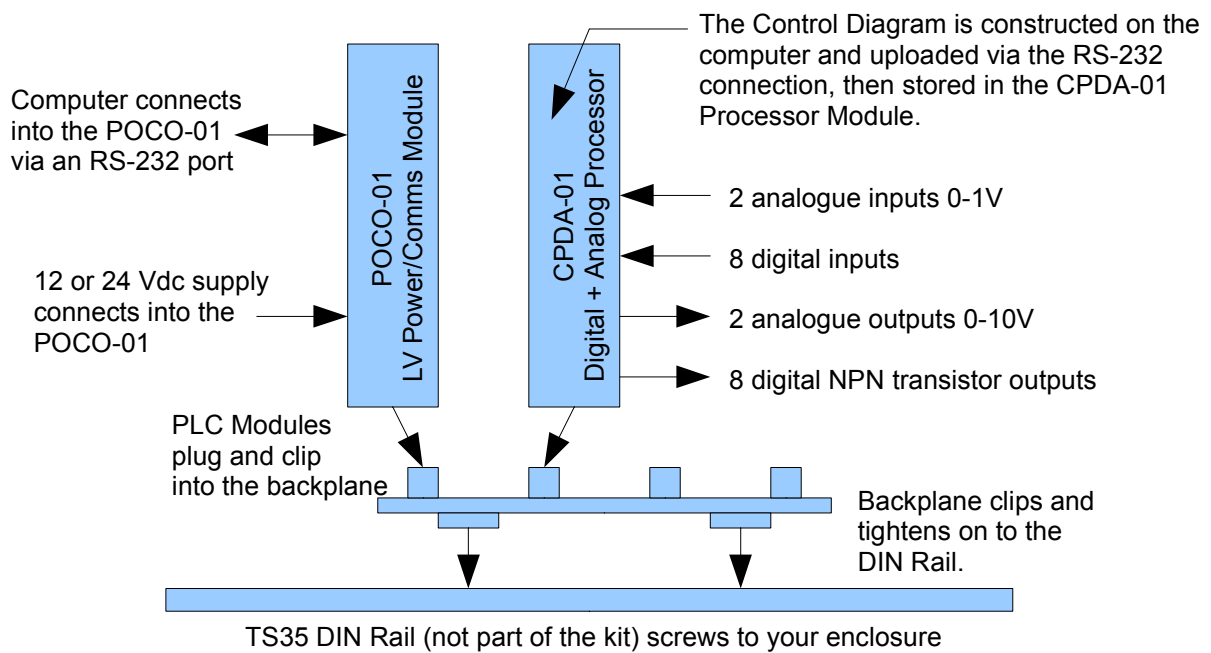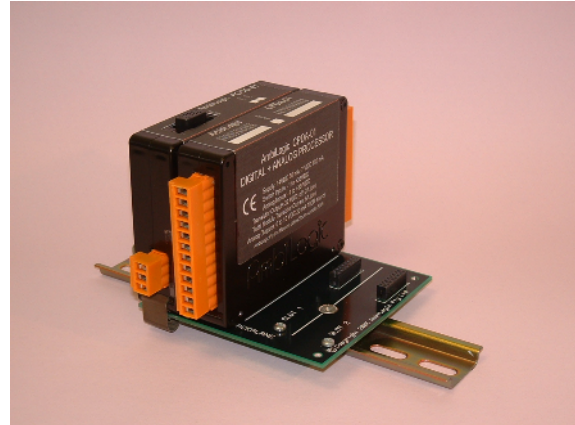# SKDA-02 PLC Starter Kits

A Much Better Idea : Logical : Unique

AmbiLogique
Electronic Controllers

Features:-

Complete PLC-in-a-box
2 or 4 Expansion slots free
20 I/O System
Built-in RS-232 Communications
12 or 24 Vdc Operation

The SKDA-02 Starter Kits provide an entry-level complete PLC in a single package.
Two variants provide either a 2-slot (SKDA-02-02) or 4-slot (SKDA-02-04) backplane for expansion modules

The Control Diagram is constructed on the computer and uploaded via the RS-232 connection, then stored in the CPDA-01 Processor Module.

Computer connects into the POCO-01 via an RS-232 port

POCO-01 LV Power/Comms Module

CPDA-01 Digital + Analog Processor

2 analogue inputs 0-1V

8 digital inputs

12 or 24 Vdc supply connects into the POCO-01

2 analogue outputs 0-10V

8 digital NPN transistor outputs

PLC Modules plug and clip into the backplane

Backplane clips and tightens on to the DIN Rail.

TS35 DIN Rail (not part of the kit) screws to your enclosure

How an AmbiLogique Starter Kit fits together

SKDA-02 PLC Starter Kits

A **PLC Starter Kit** comprises:

- ♦ BP-02 Backplane with slots for Power/Comms, Processor and two expansion modules or

   BP-04 Backplane with slots for Power/Comms, Processor and 4 expansion modules

- ♦ POCO-01 Power/Comms Module with RS-232 interface

- ♦ CPDA-02 Processor Module with 20 I/O: 8 digital inputs, 2 analogue inputs, 8 digital outputs, 2 analogue outputs and 3 medium-speed (1 kHZ) counters.

- ♦ AmbiL_PLC software and technical data on CD.

The kit cost is less than the sum of the components, so it is a convenient and economical way of ordering a basic PLC.

The kit is ready to run, needing only a simple DC power supply in the 11 to 33 V range, 3W in order to provide a complete controller solution.

A personal computer with a Microsoft Windows® operating system, emulator or API overlay is required for programming, along with a USB-to-RS232 adaptor. We recommend that you also obtain a DB9 male-to-female extension cable to make connection to the PLC easier. The adaptor and extension cable are obtainable from most computer shops for a few dollars, or AmbiLogique can supply the IFUR-01 adaptor and extension cable.

Please refer to the component data sheets for full specifications, and to the AmbiLogique website for the latest catalogue of expansion modules and accessories.

Please Note: Some AmbiLogique products or components may carry the "AmbiLogic" trade mark from our former Australian company.

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Specifications

1. Power Input:
   11.0 to 32Vdc, 100 to 250 mA depending on module mix

2. Inputs and Outputs:
   See individual module data sheets for details.

3. Scan Rate   See Processor Module data sheet.

4. Diagram Capacity   See Processor Module data sheet.

5. Dimensions:
   Heights: 83 mm above backplane
                   97 mm above mounting base when assembled
                   on to an AmbiLogique backplane on TS35 rail.

   Width: BP-02: 103 mm max
                   BP-04: 154 mm max

   Depths: 103 mm over body
                   125 mm over terminals

6. Ambient temperature: -10 to +60 °C

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WARNING
SAFETY-CRITICAL SYSTEMS

A **Safety-Critical system** is a system whose failure or malfunction could cause death, significant injury or loss of property.

AmbiLogique products incorporate electronic hardware and software, both of which carry a remote but real possibility of failure. AMBILOGIQUE DOES NOT WARRANT, CLAIM OR REPRESENT THAT ITS PRODUCTS ARE INFALLIBLE.

It is therefore THE RESPONSIBILITY OF THE DESIGNER of any safety-critical system which incorporates AmbiLogique products to ensure that:-

1. The system is designed so that any failure of an AmbiLogique component will not cause death, injury or loss of property.

2. The system incorporates independent monitoring means which detect the failure of any of the electronic control elements.

3. The system has alternative and independent means of control which enable it to be controlled and shut down in an orderly manner.

4. Any and all other industry-specific safety requirements are fully implemented.

Revision History:

R 0.0   2016-05-10   Initial issue, derived from SKDA-01 data sheet.