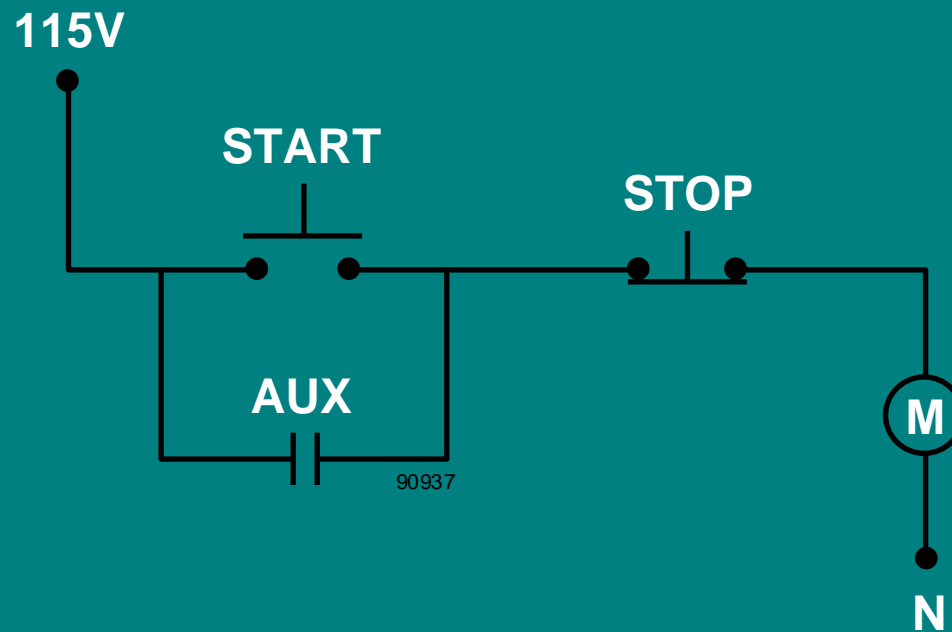


Relay Control

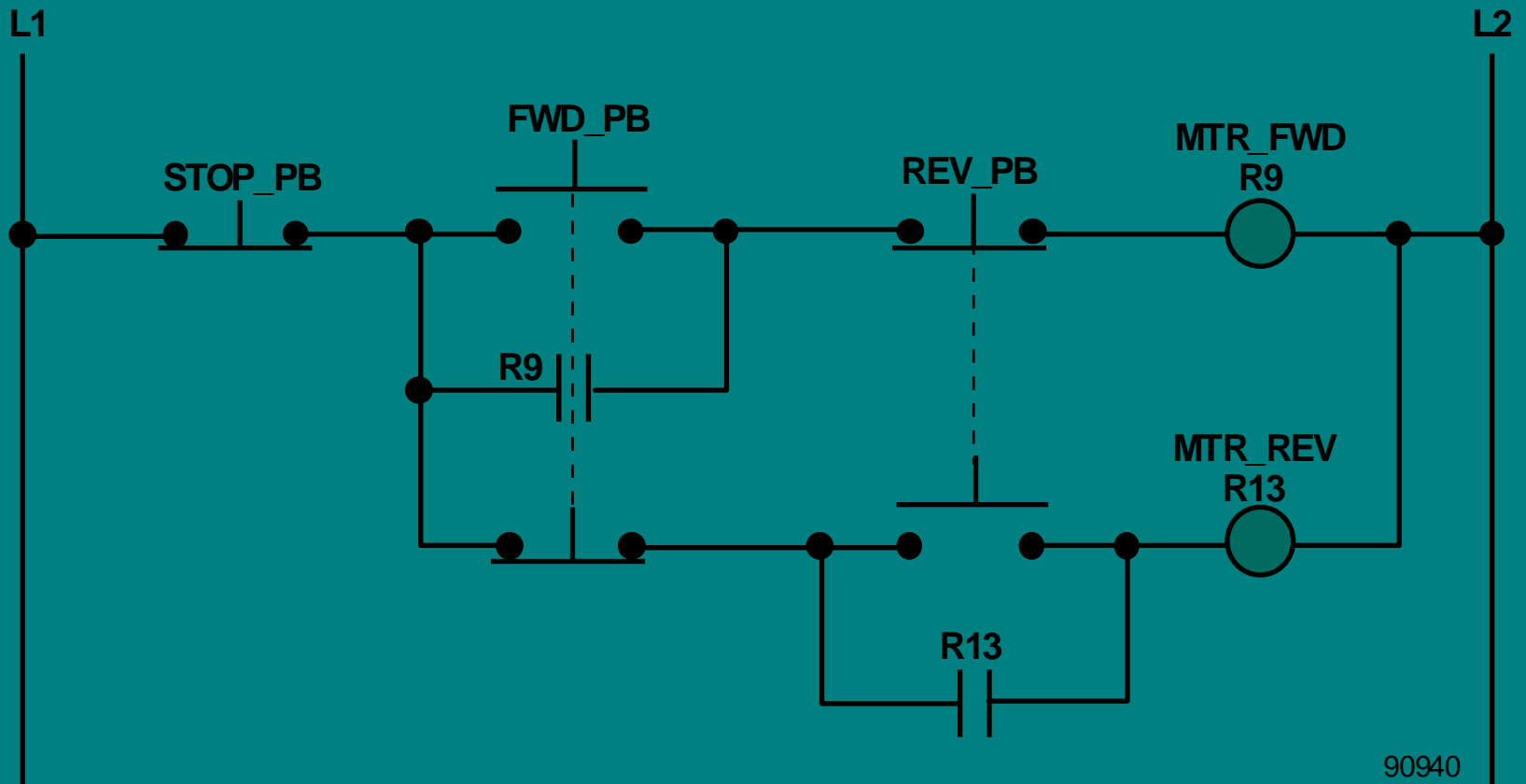
Hardware



中国工控网收集整理

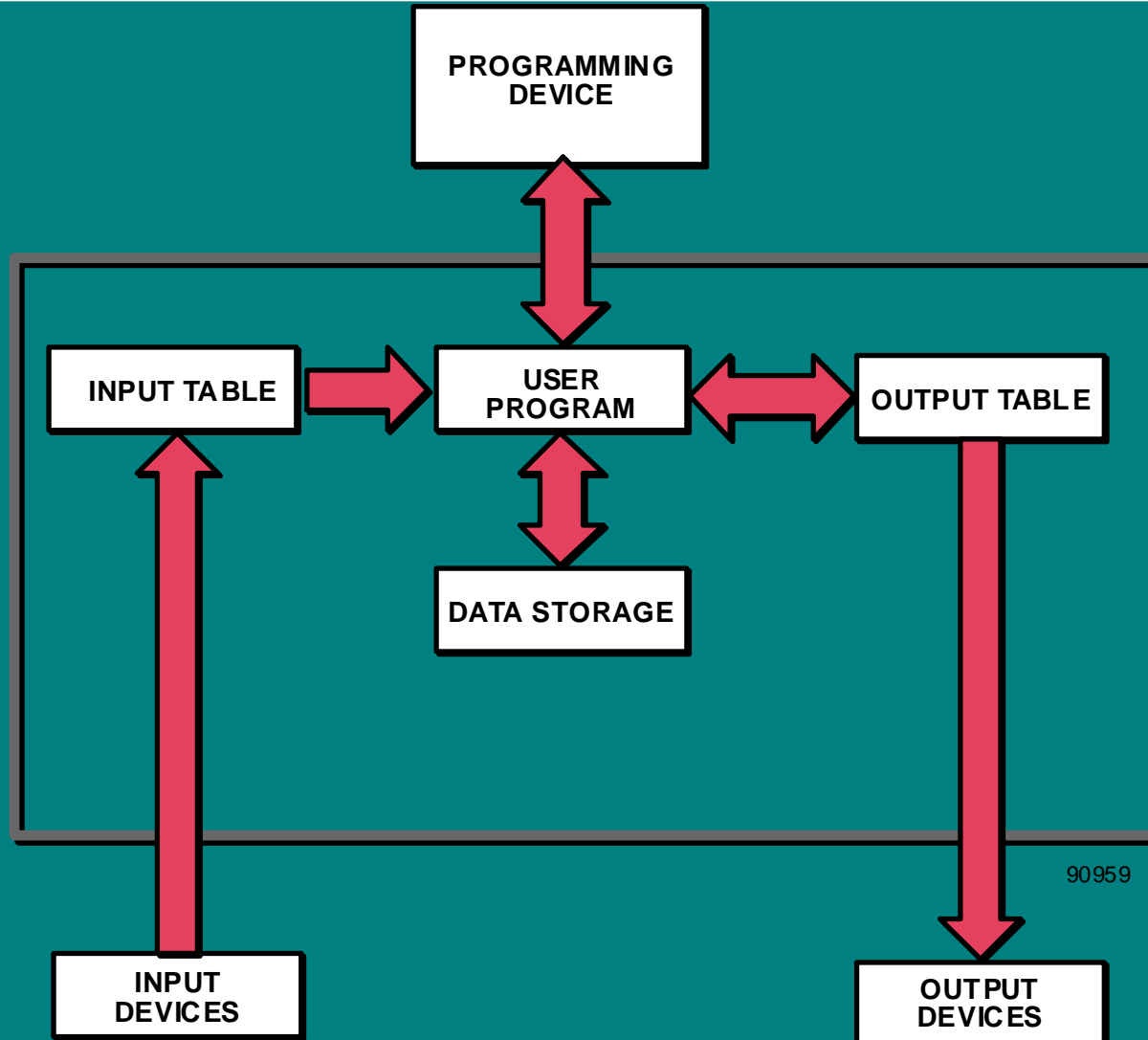
<http://www.chinakong.com>

Relay Control

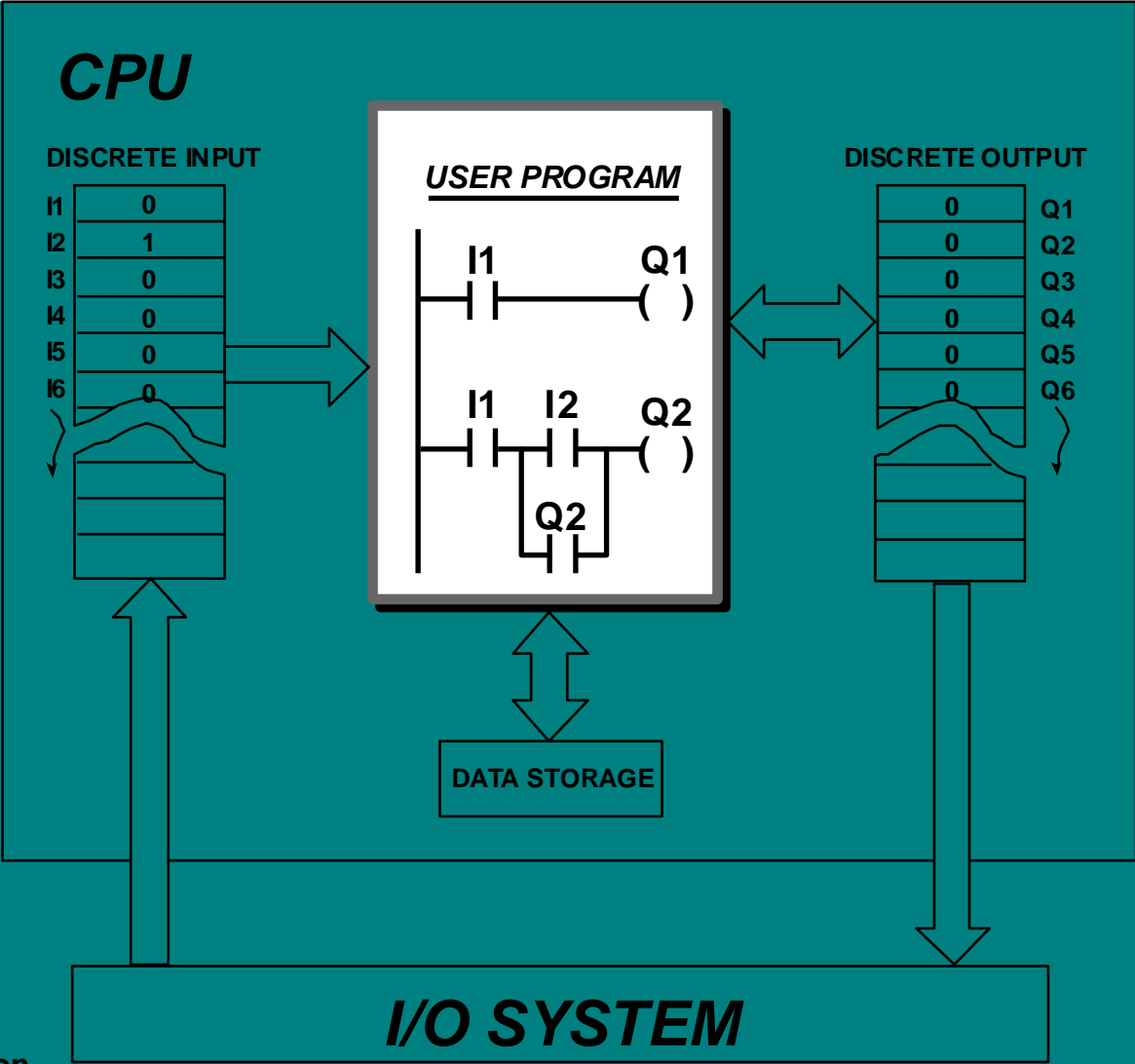


90940

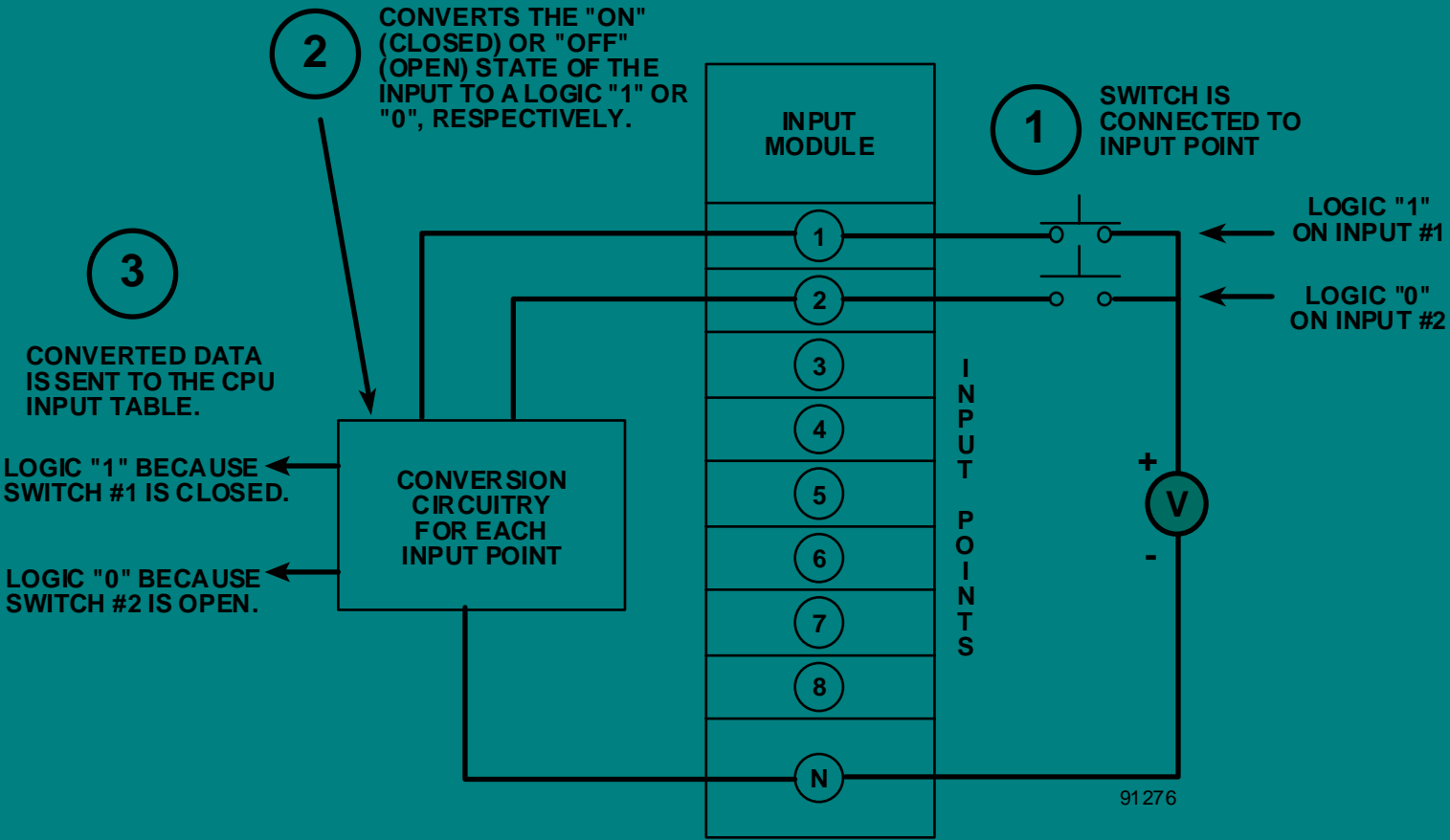
PLC Fundamental



PLC Fundamental

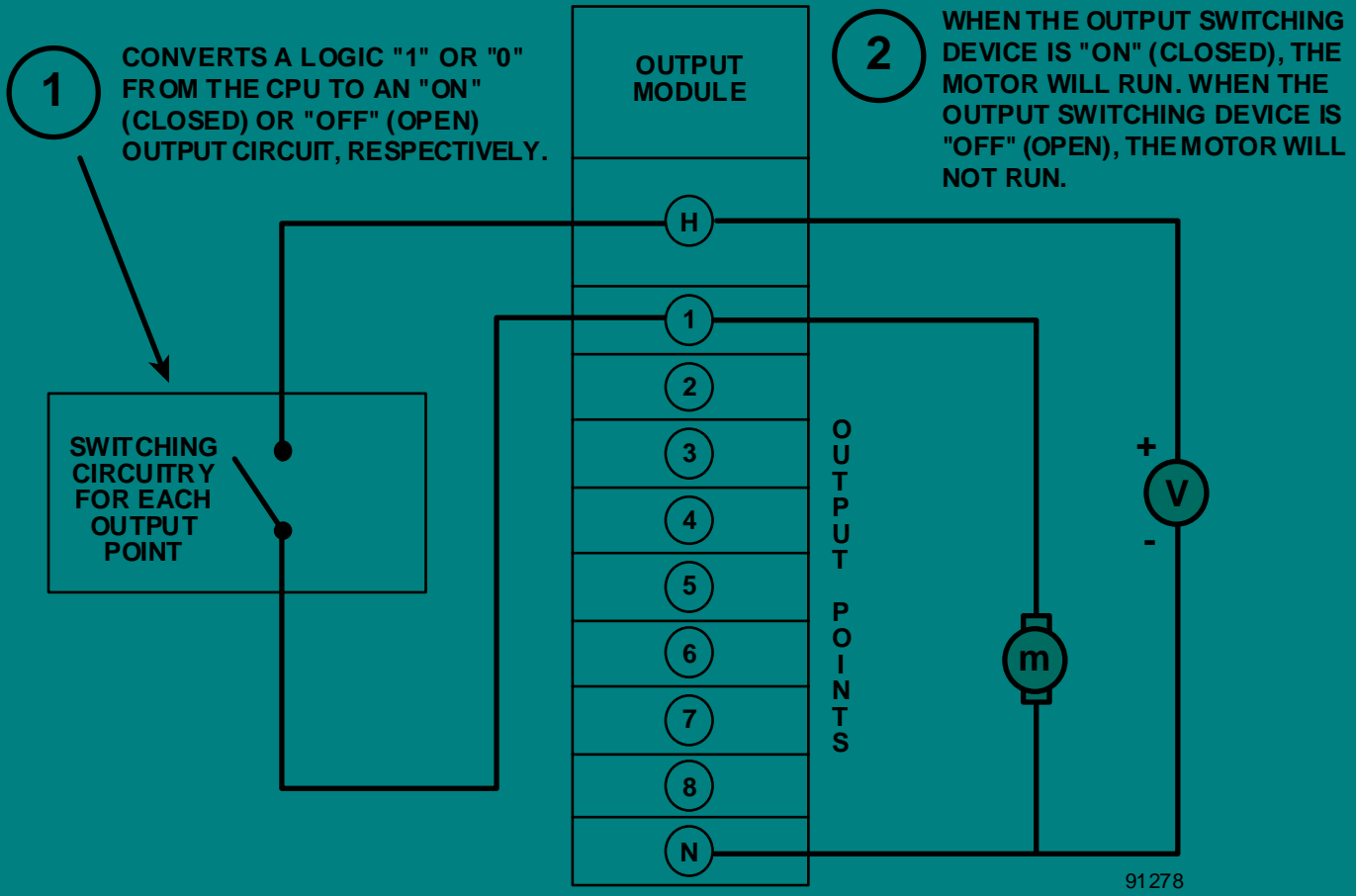


PLC Input



POSITIVE LOGIC:
THE SWITCHING DEVICE CONNECTS THE HIGH SIDE OF THE VOLTAGE SOURCE TO THE MODULE INPUT.

PLC Output

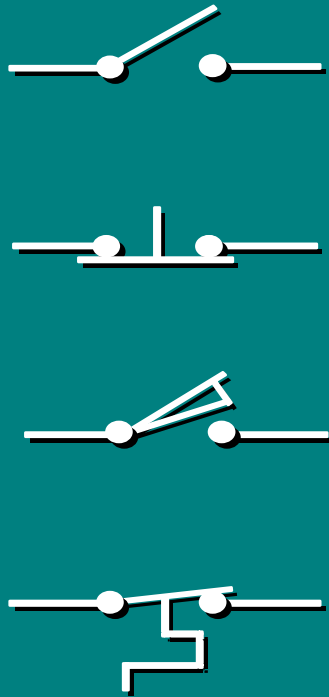


POSITIVE LOGIC:

A LOGIC "1" FROM THE CPU CONNECTS ONE SIDE OF THE LOAD TO THE HIGH SIDE OF THE POWER SOURCE WHILE A LOGIC "0" OPENS THE CIRCUIT.

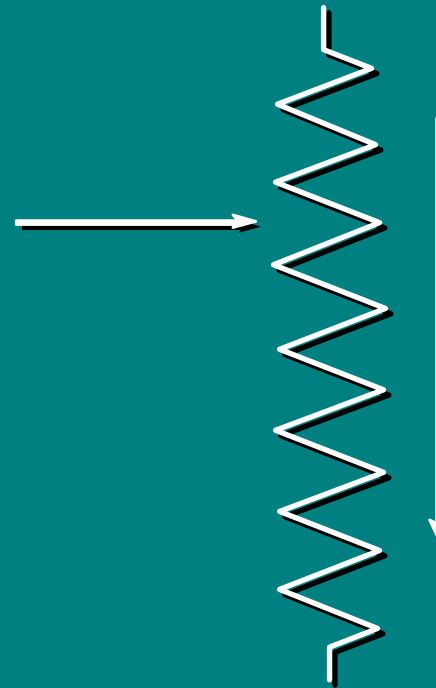
Discrete & Analog

Discrete



**DEVICE HAS 2 STATES:
“ON” OR “OFF”**

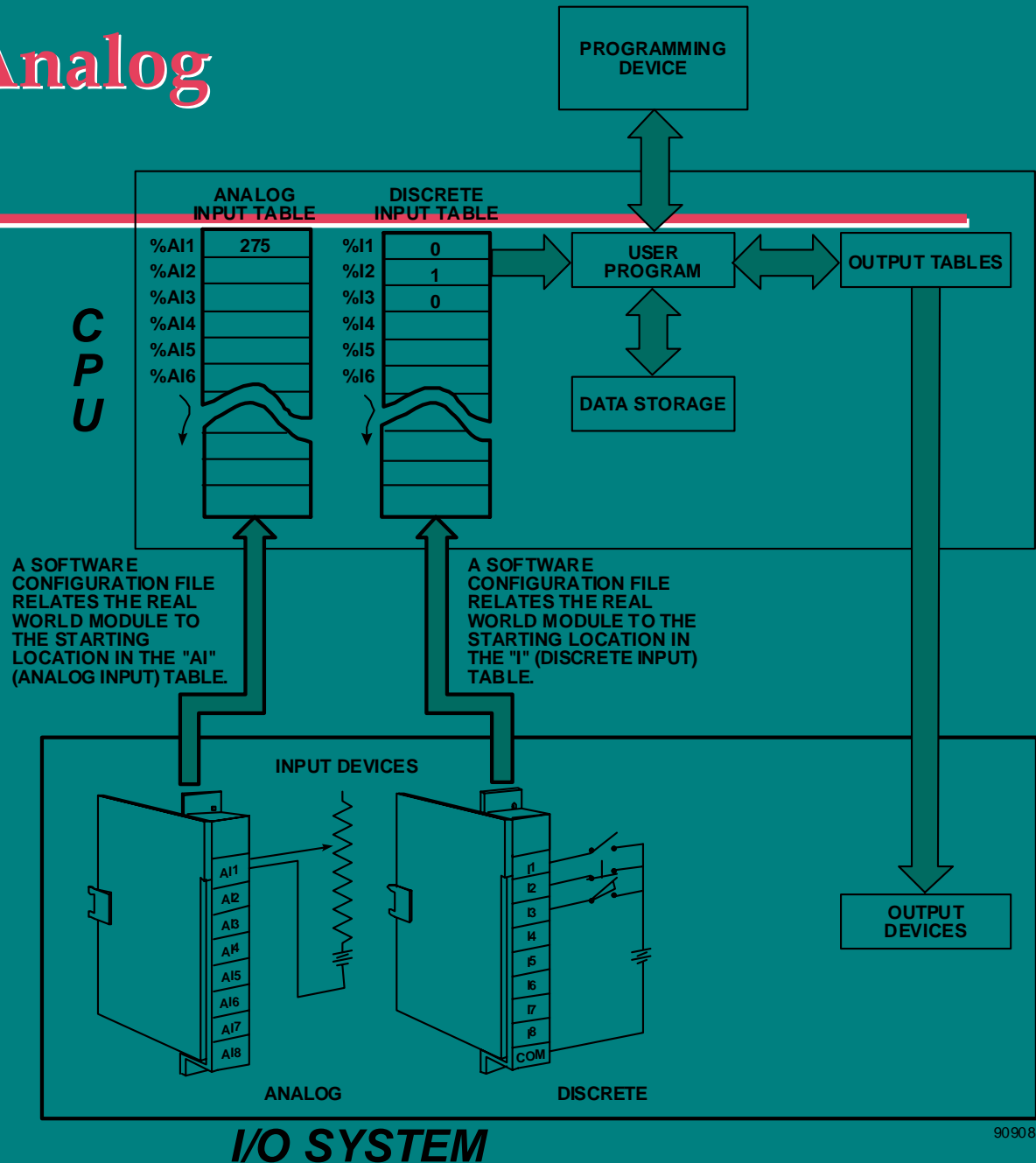
Analog



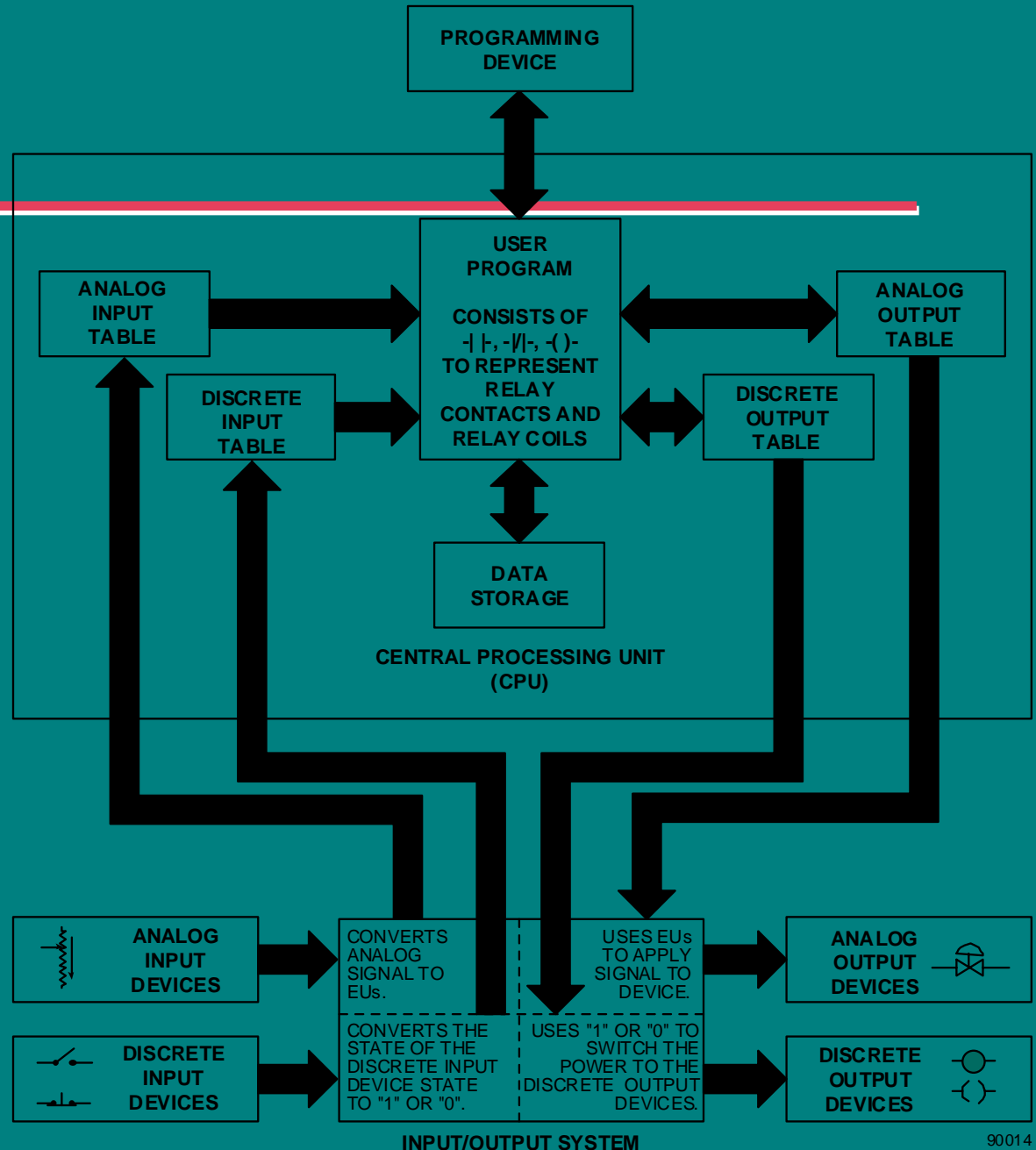
90907

**DEVICE HAS AN
UNLIMITED NUMBER OF
STATES WITHIN THE
VOLTAGE OR CURRENT
RANGE.**

Discrete & Analog

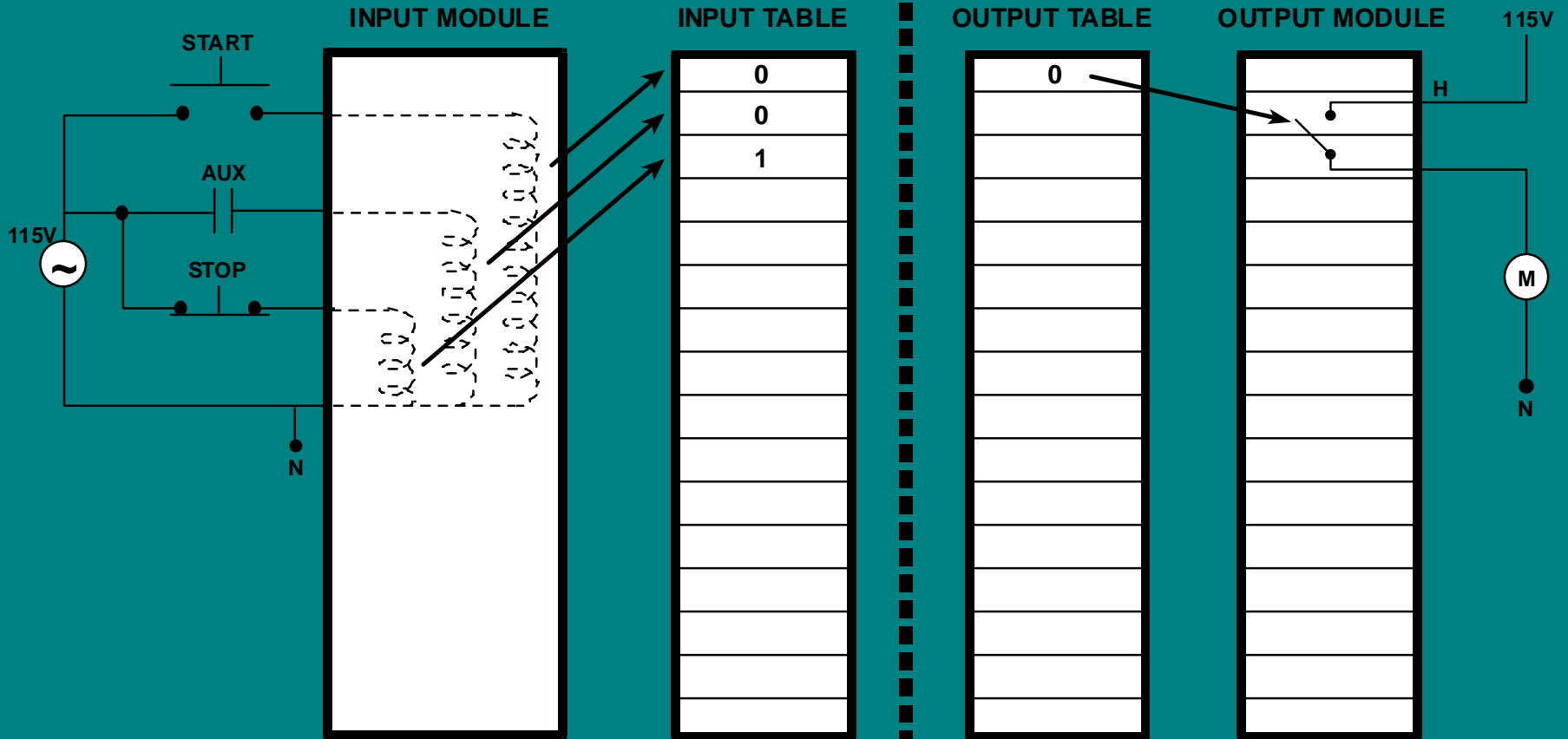


PLC Table



Motor Starter

PLC Interface



90938

Allowable References

Discrete References (1-Bit)

%I

%Q

%T

%S

%M

%G

%U

Word References (16-Bit)

%AI

%AQ

%R

%P

%L

%UR

%S References

Reference	Nickname	Definition
%S0001	FST_SCN	Set to 1 when the current sweep is the first sweep.
%S0002	LST_SCN	Reset from 1 to 0 when the current sweep is the last sweep.
%S0003	T_10MS	0.01 second timer contact.
%S0004	T_100MS	0.1 second timer contact.
%S0005	T_SEC	1.0 second timer contact.
%S0006	T_MIN	1.0 minute timer contact.
%S0007	ALW_ON	Always ON.
%S0008	ALW_OFF	Always OFF.
%S0009	SY_FULL	Set when the PLC fault table fills up. Cleared when an entry is removed from the PLC fault table and when the PLC fault table is cleared.
%S0010	IO_FULL	Set when the I/O fault table fills up. Cleared when an entry is removed from the I/O fault table and when the I/O fault table is cleared.
%S0011	OVR_PRE	Set when an override exists in %I, %Q, %M, or %G memory.
%S0013	PRG_CHK	Set when background program check is active.
%S0014	PLC_BAT	Set to indicate a bad battery in a Release 4 or later CPU. The contact reference is updated once per sweep.

Password

Privilege Level	Description
Level 1	Any data, except passwords may be read. This includes all data memories (%I, %Q, %AQ, %R, etc.), fault tables, and all program block types (data, value, and constant). No values may be changed in the PLC.
Level 2	This level allows write access to the data memories (%I, %R, etc.).
Level 3	This level allows write access to the application program in STOP mode only.
Level 4	This is the default level for systems which have no passwords set. The default level for a system with passwords is to the highest unprotected level. This level, the highest, allows read and write access to all memories as well as passwords in both RUN and STOP mode. (Configuration data cannot be changed in RUN mode.)

OEM Key: Protect OEM program from viewing or copy

Clock

Real Time Clock: CPU331 or above 90-30, 90-70

```
|PLCTIM | |SNPID | |MEMLIN | | | | | | | |
|equal 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
>
      T I M E - O F - D A Y   C L O C K

      DATE                TIME

CURRENT PLC VALUES      03-19-00      05:24:57
NEW PLC VALUES          [REDACTED]
PROGRAMMER              10-11-91      16:41:14

<< Type NEW PLC DATE(MM-DD-YY) or TIME(HH:MM:SS), then press ENTER >>
<< to Send NEW PLC VALUE in Highlighted Field to PLC, or Press EQUAL >>
<< soft key to Copy both PROGRAMMER DATE and TIME to the PLC. >>

ID: [REDACTED] RUN/OUT EN [REDACTED] 22ms SCAN ONLINE I4 ACC: WRITE LOGIC [REDACTED] CONFIG NOT EQ
C:\LM90\LESSON [REDACTED] PRG: LESSON [REDACTED] CONFIG VALID
REPLACE
```