



# MODEL DESCRIPTION

**RS485 Serial Port**  
1 communication port supports 2 - wire RS485 serial interface.


**RS232 Serial Port**  
1 RJ45 connector for RS232 serial interface with other devices.

**USB Port**  
1 micro USB device for upload, Download and monitor of application / logic.

**Digital Inputs**  
24VDC inputs includes 8 high speed / 4 quadrature inputs Up-to25KHz frequency

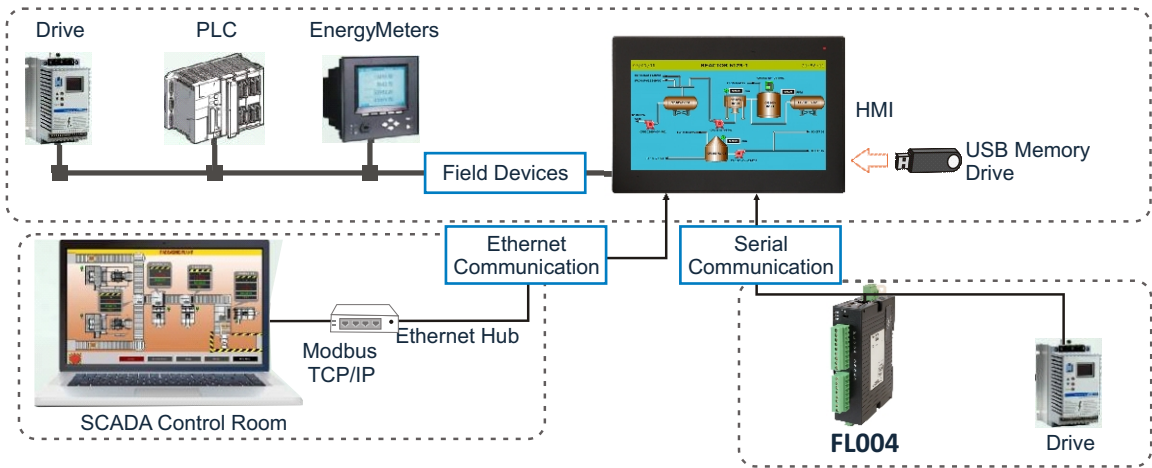
**Non-isolated Power Supply 24VDC**  
Recommended to use Isolated External power supply

**Digital Outputs**  
Digital outputs includes relay, PNP & NPN transistorized pulse output of 10KHz frequency.



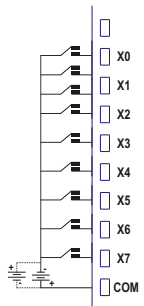
Up-to 8 expansions

# PLC BASED CONTROL APPLICATION

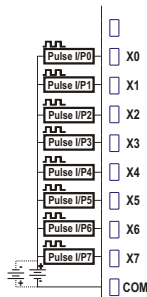


# WIRING DIAGRAM

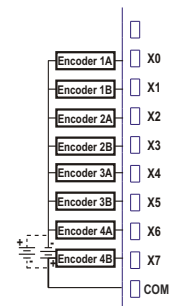
## Digital Inputs



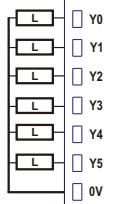
## HSC Inputs: Single Phase counter



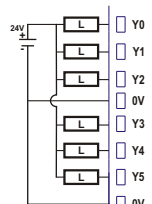
## Quadrature



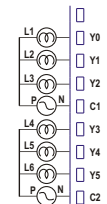
## Digital Outputs: (P-Type)



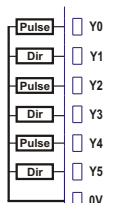
## Digital Outputs: (N-Type)



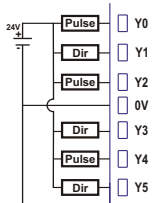
## Digital Outputs: (R-Type)



## PWM Output: (P-Type)



## PWM Output: (N-Type)



## DIGITAL EXPANSION MODULES

Model	Digital I/P	Digital O/P	Description
FLD0800	8	0	8 Digital Inputs
FLD0008N	0	8	8 Digital Outputs (NPN)
FLD0008R	0	8	8 Digital Outputs (Relay)
FLD0808N-L	8	8	8 Digital Inputs, 8 NPN Outputs
FLD0808R-L	8	8	8 Digital Inputs, 8 Relay type Outputs Digital module

## ANALOG EXPANSION MODULES

Model	Analog I/P	Analog O/P	Description
FLA0400-14	4	0	4 Analog Inputs ( 0-10 VDC / 0-20mA / 4-20 mA ), 14 Bit
FLA0400-16	4	0	4 Analog Inputs ( 0-10 VDC / 0-20mA / 4-20 mA ), 16 Bit
FLA0400T	4	0	4 TC Analog Inputs (B, R, S, E, J, K, N, T)
FLA0400R	4	0	4 RTD Analog Inputs (PT100 / PT1000)
FLA0002L	0	2	2 Analog Outputs (0-10 VDC / 4-20 mA), 12 Bit
FLA0004L	0	4	4 Analog Outputs (0-10 VDC / 4-20 mA), 12 Bit
FLA0402L	4	2	4 Linear inputs (0-10V) / 4-20mA / 0-20mA), 16 Bit 2 Analog outputs (0-10V / 4-20mA / 0-20mA), 12Bit
FLA0402U-12	4	2	4 Universal Inputs (0-5 V / 0-10 V / 0-100 mV / 0-50 mV / 0-20 mA / 4-20 mA / RTD PT-100, PT-1000 / Thermocouple - B, R, S, E, J, K, N, T) 2 Analog Outputs (0-10 V / 4-20mA), 12 Bit
FLAD0202N-S0	2	2	2 Load cell inputs, 2 NPN transistor outputs

**Note:**Presently FL004 Series PLCs Support Digital and Analog Expansions modules as per the above list.  
Please contact factory regarding possibility of supporting other Expansions modules not listed above.

## SUPPORTED PROTOCOLS

ABB PLCs
Allen Bradley DF1
Baldor
Danfoss Drive
Delta PLCs
Fatek PLCs
FlexiLogics Slave Driver
FlexiLogics Master Driver
FL Smidth Loadcell
GE SNP
GE SNP- X
Idec PLCs
LG Master K Series PLC
LG Master K 300S
Mitsubishi FX
Mitsubishi Q Series PLCs (Serial)

Modbus ASCII (Unit as Master)
Modbus RTU (Unit as Master)
Modbus RTU (Unit as Slave)
Omron Inverter Memo BUS
Omron Host Link
Panasonic FP Series
Siemens Micromaster Driver (USS)
Toshiba (Link Port) Series PLCs
Toshiba Inverters PLCs
Toshiba T Series
TriPLC
Twido PLCs
Unitelway PLCs
Universal Serial Driver(ASCII)

