

## SYSTEMS

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**INDUSTRIAL CONTROL &  
MANAGEMENT SYSTEMS, INC.**

215-721-7070

## CONTROL PANEL DESIGN & ASSEMBLY



### AUTOMATION HARDWARE

- CONTROL CONSOLES
- PLC, I/O, MOTOR CONTROL

PN:CPD1

## CONTROL PANEL SERVICES:

- \* COMPONENT SELECTION
- \* LAYOUT DRAWINGS
- \* ASSEMBLY
- \* TESTING / SIMULATION
- \* DOCUMENTATION



## AUTOMATION CHECK LIST

### PANEL DESIGN GUIDELINES

#### CONTROLLER TYPE

- COMPUTER
- PLC / REMOTE
- PLC / LOCAL

#### ENVIRONMENT

- NEMA 4X
- NEMA 12
- OTHER

#### PROTECTION

- CIRCUIT BREAKERS
- FUSES
- COMBINATION

#### FUTURE REQUIREMENTS

- 10 % INCREASE
- 25 % INCREASE
- 50 % INCREASE

#### SPECIFIC COMPONENT REQUIREMENTS

#### MANUFACTURE PREFERENCES:

CONTROL ENCLOSURES: \_\_\_\_\_

PLC TYPE / BRAND: \_\_\_\_\_

MOTOR CONTROL: \_\_\_\_\_

PILOT DEVICES : \_\_\_\_\_

- **QUALITY COMPONENTS**
- **FUNCTIONAL LAYOUT**
- **FUTURE EXPANSION**
- **DOCUMENTATION**
- **COST EFFECTIVE**



### INDUSTRIES SERVED

- \* MATERIAL HANDLING
- \* PHARMACEUTICAL -CHEMICAL
- \* WAREHOUSING
- \* AUTO
- \* STEEL
- \* FOOD



### ENCLOSURE

PLC

MOTOR STARTERS

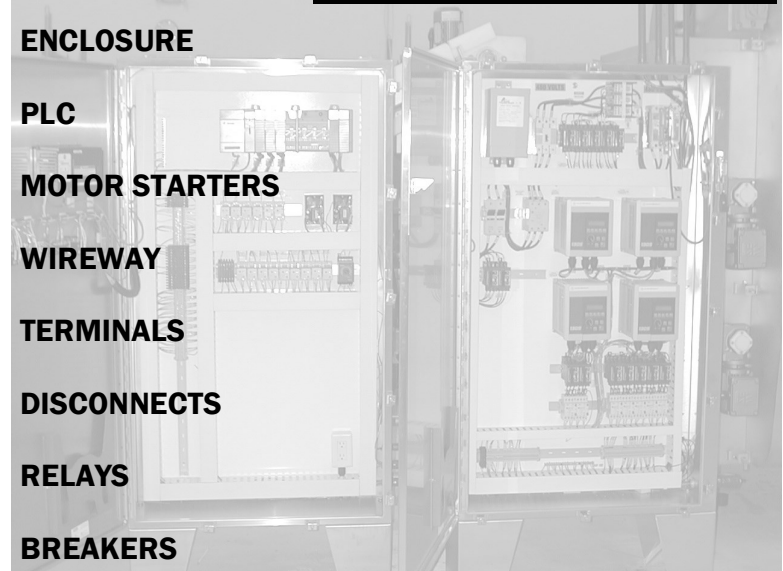
WIREWAY

TERMINALS

DISCONNECTS

RELAYS

BREAKERS



## **DESIGN / ASSEMBLY**



ICMS CAN DESIGN AND BUILD A CONSOLE FROM CUSTOMERS SYSTEM REQUIREMENTS OR FROM SUPPLIED DRAWINGS. CUSTOMER CAN CHOOSE THE LEVEL OF ICMS INVOLVEMENT TO SATISFY SYSTEM NEEDS.



### **NEMA 4X - RELAY CONTROL**

480/120 MACHINE CONTROL  
DISCRETE COMPONENTS

**INDUSTRY : PACKAGING**  
**PANEL : P0105**



### **NEMA 12-WALL MOUNT**

PLC CONTROL

**INDUSTRY : PACKAGING**  
**PANEL : P0106**



### **NEMA 4 PLC CONTROL**

PROCESS CONTROL

**INDUSTRY : CHEMICAL**  
**PANEL : P0107**



### **NEMA 12-MOTOR CONTROL**

PUMP SEQUENCING / ALTERNATION  
HYDRAULIC UNIT

**INDUSTRY : FOOD**  
**PANEL : P0108**



**NEMA 4X - SINGLE DOOR**

MACHINE CONTROL  
CONVEYING / TEMPERATURE CONTROL

**INDUSTRY : FOOD**  
**PANEL : P0101**

**NEMA 12-MULTIPLE DOOR**



ROLLER LINE-BILLET HANDLING

**INDUSTRY : STEEL**  
**PANEL : P0102**

**NEMA 4 PLC CONTROL**

CONVEYOR SYSTEM  
DISTRIBUTION CENTER

**INDUSTRY : WAREHOUSING**  
**PANEL : P0103**



**NEMA 12-MOTOR CONTROL**

CONVEYOR SYSTEM  
IN-LINE SCALING SYSTEM

**INDUSTRY : FOOD**  
**PANEL : P0104**



**MOTOR  
CONTROL &  
PLC**



**INDUSTRY : FOOD**  
**RATING: NEMA 4X**

**PHOTOCELLS  
PROXIMITY SW.  
SOLENOIDS  
MOTOR STARTERS**

**480VAC / 120VAC COMBINATION**

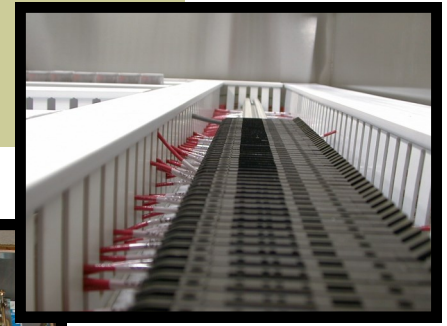
**CONVEYOR CONTROL FOR AUTOMATED BOX HANDLING SYSTEM**

*Operator control stations range from Local pushbutton stations to panel mounted displays/terminals.*



# OPERATOR CONTROLS

**Various design approaches can be selected to satisfy your control needs.**



*A stand-alone block type PLC satisfies requirements for local control needs.*



*Medium based slot type PLC offers increased system control and future expansion capability.*



*Programmable relay and timing module reduces need for discrete components and increases flexibility.*

