

# Traction AC Controller Data Forms

## Project Data

EC Data Form.xls  
Revised 11/20/09

Page  
1 of 8

EC Job Number: \_\_\_\_\_

Date Received: \_\_\_\_\_

**Instructions:**

1. Please complete data forms as completely as possible. Incomplete data may delay delivery.
2. A non-response to a question will be considered as non-applicable to this project.
3. All applicable data should be measured on existing equipment, which is to be retained.
4. The bottom landing shall be referred to as the landing 1, and shall be the reference landing without regard to the building floor labels.
5. Contact Elevator Controls Corporation engineering department at 916-428-1708, if any questions arise regarding the required data.

**NOTE: Your controller will be built according to the data furnished herein.**

EC Quote #: \_\_\_\_\_

P.O. #: \_\_\_\_\_

Customer #: \_\_\_\_\_

**Job Name:** \_\_\_\_\_

Job Location: \_\_\_\_\_

Job Address: \_\_\_\_\_

Job City: \_\_\_\_\_

Job State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Yes  No

Yes  No

Job Specifications

Specifications have been sent to ECC

Consultant: \_\_\_\_\_

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**Shipping Information:**

Contact Name: \_\_\_\_\_

Shipping Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Notice Required:

24 Hours

48 Hours

Other: \_\_\_\_\_

Lift gate truck required

Installation Type:

New Construction

Modernization

Duty Type:

Passenger

Service

Freight

Building Classification:

Office

Hotel, Apartment, Condo

Hospital

School or University

Other: \_\_\_\_\_

**Contractor Information:**  Same as shipping info.

Contact Name: \_\_\_\_\_

Shipping Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**Code Compliance United States:**

Emergency Brake Required

ASME A17.1-  2007

2004

2000

ASME A17.1- \_\_\_\_\_

**Code Compliance International:**

Canada B44-  2007

2004

2000

Other (specify) \_\_\_\_\_

**Motor(s) ship to address (if supplied by EC):**

Same as above shipping information

Contact Name: \_\_\_\_\_

Shipping Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**Additional state or local code compliance:**

Chicago

Michigan

GSA

New York City

Other \_\_\_\_\_

Additional Compliance Requirements? Explain

Delivery Schedule	
Controller	Delivery Date (on site)
Car	
Car	
Car	
Car	
Group	
Cross Cancel or Reg. Panel	

**Data Forms Completed By:**

Name/Title: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

Company: \_\_\_\_\_

Signature: \_\_\_\_\_

**Hoistway Data**

Instructions:

1. Place an "X" in the appropriate box to indicate a floor opening. (F=Front & R=Rear)
2. To ensure proper selector application, indicate all floor to floor heights.
3. Provide an additional hoistway data page for each elevator that has different floor heights or openings.

EC Elevator ID:			Car A	Car B	Car C	Car D	Car E	Car F	Car C.L.	Hall C.L.	CODE BLUE	I.R.	S.R.														
Building Elevator ID:																											
LDG #	Floor Label	Floor Height	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	F	R	
	Overhead																										
32																											
31																											
30																											
29																											
28																											
27																											
26																											
25																											
24																											
23																											
22																											
21																											
20																											
19																											
18																											
17																											
16																											
15																											
14																											
13																											
12																											
11																											
10																											
9																											
8																											
7																											
6																											
5																											
4																											
3																											
2																											
1																											
	Pit																										
Capacity: <input type="checkbox"/> lbs <input type="checkbox"/> kg									Lobby landing #: <input type="text"/> Floor Label: <input type="text"/>																		
Speed: <input type="checkbox"/> fpm <input type="checkbox"/> m/s									Car C.L. = Car Call Lockout Floor Hall C.L. = Hall Call Lockout Floor I.R. = Inconspicuous Riser (Swing Operation) S.R. = Special Riser (attach explanation)																		
Total Travel <input type="checkbox"/> ft <input type="checkbox"/> m																											

Number of Hoistways:  1  2  Hoistway NEMA Rating:  1 (standard)  12  4  4X

Selector:  By EC  Customer Provided Selector Type:  IP8300 (tape)  Switch and Vane

Rail Size (lbs):  10-12  15-18  22-30  TM Switch (music box)

Terminal slowdown limit switches by EC:  
 Mechanical\* # of switches required:   8 Cartop Magnetic  14 Cartop Magnetic

Final limit switches by EC: (mechanical\*)

\*Mechanical (LS1) limit switches come with standard 15lbs rail brackets and hardware.

Machine room space limitations \_\_\_\_\_ H \_\_\_\_\_ W \_\_\_\_\_ D  
Explain: \_\_\_\_\_

Refer to page 6 of data forms, for applicable enclosure sizes (NEMA 1 only).

Controller NEMA Rating Requirement:

1 (standard)  12  4  4X

Air conditioned enclosure

(recommended for all except NEMA 1)

**Type of Operation:**

Simplex:

Selective Collective

SAPB Single Automatic Pushbutton

Single Button Collective

Down Collective

Duplex Selective Collective

Group Number of Cars: \_\_\_\_\_

Length of duplexing or grouping cable(s) required: \_\_\_\_\_ ft.

Allow for an additional 5 feet at each end to permit hookup inside controller enclosure. (Interconnects between controllers and/or group)

Number of hall call risers: \_\_\_\_\_

Swing Car Operation: Car(s): \_\_\_\_\_

Key switch in car  Key switch in hall

Cross Cancellation Panel

**Fire Service Operation:**

Fire Service Phase I:

3 position keyswitch  2 position keyswitch

Fire Service Phase II (3 position keyswitch)

Main Recall Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

Doors will open at:  Front  Rear

Alt. Recall Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

Doors will open at:  Front  Rear

Additional Fire Recall Switch:

Location Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

**Inspection Operation:**

Hoistway Access Operation:

Top access switch (top landing):

Location:  Front  Rear

Bottom access switch (bottom landing):

Location:  Front  Rear

Top & bottom access switches are required to be 2 pole.

In-Car Inspection Operation:

Using top & bottom car calls (2nd pole of P/B)

Using separate up & down buttons

In-Car Access & Inspection Switch Type (COP):

Access/In-Car insp. switch (3 position - two pole)

Access switch (2 position - single pole)

In-Car inspection switch (2 position - single pole)

Absolute Floor Encoding (AFE) (A17.1-07 & CA required)

Attendant Operation:  Annunciator panel in car

Car to Lobby Switch:  Car  Hall  Other \_\_\_\_\_

Park with doors:  Open  Closed

Return Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

Earthquake Operation:

Seismic switch  Counterweight derailment device

Car adjacent to counterweight switch

Car operates on fire or hospital service (reduced speed)

Emergency Power Generator

E.P. contact during normal op.  Open  Closed

Power pre-transfer contact

Sequential lowering (standard)

If not, number of cars to run simultaneously: \_\_\_\_\_

Manual select switch: # of Pos: \_\_\_\_\_ Labels: \_\_\_\_\_

A17.1-2000 requires indicator(s), if the switch is not in view of the elevator entrance(s).

Emergency Medical Technician Service (EMT):

Return Landing #: \_\_\_\_\_ Floor Label: \_\_\_\_\_

Hospital Service (Code Blue): (indicate landings served on page 2)

# of cars allowed to run on hospital service: \_\_\_\_\_

Hospital Service Phase 2 Operation:

Hospital phase 2 switch  Independent service switch

Other (explain): \_\_\_\_\_

Independent Service Switch:  Car (std.)  Hall

Load Weighing:  By EC  Others: \_\_\_\_\_

K-Tech strain gauge: Model: \_\_\_\_\_

Discrete load weigher signals (dry contacts):

Hall call bypass  Anti-nuisance  Overload

Sabbath Operation

Security (check applicable requirements below)

EC standard security (utilizing COP car call combinations)

Call lockout: (indicate landings served on page 2)

Car:  Card Reader  Key  Other: \_\_\_\_\_

Hall:  Card Reader  Key  Other: \_\_\_\_\_

Call lockout override switch:  Car  Hall

Bypass Security: (bypass on fire service is standard)

Independent Service  Attendant Service

Other: \_\_\_\_\_

Anti-Terrorism Control

Baby Abduction  Interact Security Control

Special Security: \_\_\_\_\_

Shutdown Switch:  Car  Hall

Additional features required: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



New door operator:  
Supplier: \_\_\_\_\_  
Contact: \_\_\_\_\_  
P.O.#: \_\_\_\_\_ Phone: \_\_\_\_\_

Existing door operator

**Car Gate and Hoistway Doors:**

Automatic car gate  
 Manual car gate  
Gate release solenoid: Voltage: \_\_\_\_\_ V Ph. \_\_\_\_\_  
Current: \_\_\_\_\_ A Description: \_\_\_\_\_

**Automatic Passenger Door Operators:**

Place an "X" in the appropriate box to indicate

F	R	door operator. (F = Front and R = Rear)
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOVFR: <input type="checkbox"/> 1 <input type="checkbox"/> 2
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOD (shunt wound): <input type="checkbox"/> 230V <input type="checkbox"/> 115V
<input type="checkbox"/>	<input type="checkbox"/>	GAL MODPM (permanent magnet)
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOM/MOH
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOCT/MOCTA: <input type="checkbox"/> 230V <input type="checkbox"/> 115V
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOSVCL/MOMSVL/MOHSVL
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOA
<input type="checkbox"/>	<input type="checkbox"/>	GAL MOMCT/MOHCT: <input type="checkbox"/> 230V <input type="checkbox"/> 115V
<input type="checkbox"/>	<input type="checkbox"/>	GAL MODCT/MOCT: <input type="checkbox"/> 240V <input type="checkbox"/> 120V
<input type="checkbox"/>	<input type="checkbox"/>	MAC PM-SSC
<input type="checkbox"/>	<input type="checkbox"/>	MAC Old Style
<input type="checkbox"/>	<input type="checkbox"/>	ECL: <input type="checkbox"/> 895 <input type="checkbox"/> 1000 <input type="checkbox"/> 2000
<input type="checkbox"/>	<input type="checkbox"/>	Schindler QKS: <input type="checkbox"/> 14 <input type="checkbox"/> 15
<input type="checkbox"/>	<input type="checkbox"/>	Dover Type D
<input type="checkbox"/>	<input type="checkbox"/>	Dover: <input type="checkbox"/> DC62 <input type="checkbox"/> DC68
<input type="checkbox"/>	<input type="checkbox"/>	Dover: <input type="checkbox"/> HD70 <input type="checkbox"/> HD73 <input type="checkbox"/> HD91 <input type="checkbox"/> HDLM
<input type="checkbox"/>	<input type="checkbox"/>	Otis Type "F"
<input type="checkbox"/>	<input type="checkbox"/>	Otis: <input type="checkbox"/> 20S <input type="checkbox"/> 30S
<input type="checkbox"/>	<input type="checkbox"/>	Otis 6970A: <input type="checkbox"/> Reactance <input type="checkbox"/> Resistance
<input type="checkbox"/>	<input type="checkbox"/>	Otis 7300 (220VAC, 3PH)
<input type="checkbox"/>	<input type="checkbox"/>	Otis A7770A
<input type="checkbox"/>	<input type="checkbox"/>	Otis 7782AA
<input type="checkbox"/>	<input type="checkbox"/>	Westinghouse Type B w/ retiring cam
<input type="checkbox"/>	<input type="checkbox"/>	Westinghouse Type E (120VDC)
<input type="checkbox"/>	<input type="checkbox"/>	Atlantic Tech <input type="checkbox"/> 9001 <input type="checkbox"/> 9003
<input type="checkbox"/>	<input type="checkbox"/>	IPC Encore (closed loop)
<input type="checkbox"/>	<input type="checkbox"/>	Fermator
<input type="checkbox"/>	<input type="checkbox"/>	Haughton: Model: _____
<input type="checkbox"/>	<input type="checkbox"/>	R & R
<input type="checkbox"/>	<input type="checkbox"/>	MCE Smartraq
<input type="checkbox"/>	<input type="checkbox"/>	Other: _____

\*Please send/provide door operator wiring diagrams.

**Hoistway Door Type:**

Automatic passenger (horizontal sliding)  
 Automatic freight (vertical sliding)  
 Swing\*  
 Manual\*

\*Interlocks:  
 Door closed contacts (separate from locked contacts)  
 Door locked contacts  
Brand: \_\_\_\_\_ Model: \_\_\_\_\_

Door locking cam:  
 Fixed  
 Mechanical (driven by automatic car gate)  
 Retiring: Voltage: \_\_\_\_\_ AC  DC Ph. \_\_\_\_\_  
Current: \_\_\_\_\_ A Notes: \_\_\_\_\_

**Power Freight Doors:** non-standard & freight doors prints are required

Door operator wiring diagrams have been sent to ECC\*

Courion:  New  Existing\* Model: \_\_\_\_\_

EMS:  New  Existing\* Model: \_\_\_\_\_

Peele:  New  Existing\* Model: \_\_\_\_\_

Other:  New  Existing\* Model: \_\_\_\_\_

**Freight Door Operation:**

Door Opening:  Automatic  Momentary pressure  
 Constant pressure

Door Closing:  Automatic  Momentary pressure  
 Constant pressure

Fire Ph. 1 Closing:  Automatic  Momentary pressure  
 Constant pressure

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Door Features:**

Infrared detector/dual-beam photo eye unit:  
 Cut-out switch located in COP  
 Anti- nuisance

Mechanical safety edge

Heavy doors at landings: \_\_\_\_\_

Door hold:  Switch  Button: (time) \_\_\_\_\_ sec.

Nudging:  Reduced torque with buzzer  
 Buzzer only

**Machine Room Data - Traction AC**

**Controller Type:**  V900  V800  
 VF-CL PVF (closed loop vector + position velocity feedback)  
 VF-CL (closed loop flux vector)  
 VF-OL (open loop vector) 150fpm or less only

**Line Voltage:** \_\_\_\_\_ (measured)  
 AC 3 phase (symmetrical with respect to ground)  
 AC single phase  
 60 Hz  50 Hz

**Machine:**  Existing  New  New from EC  
 Brand: \_\_\_\_\_  
 Location:  Overhead  Basement  MRL  
 Type:  Geared: \_\_\_\_\_  
 Gearless:  PM (permanent magnet)  Induction  
 Roped:  1:1  2:1

**Brake:**  
 DC  AC single phase  AC 3-phase  
 Number of brake coils:  1  2  Other: \_\_\_\_\_  
 Per coil voltage and resistance measurements:  
 Voltage Picking: \_\_\_\_\_ Voltage Holding: \_\_\_\_\_  
 Resistance: \_\_\_\_\_ ohms  Measured  Data sheet  
 If measured:  Hot  Cold  
 Contact on Brake:  N/O (closes when brake is picked)  
 N/C (opens when brake is picked)

**Emergency Brake:** (required on ASME A17.1-2000 and later)  
 Rope Brake:  Hollister Whitney  
 Other Brand: \_\_\_\_\_ Model: \_\_\_\_\_  
 Independent brake on machine: # of coils: \_\_\_\_\_  
 Other (explain): \_\_\_\_\_

**Additional Requirements:**  
 Isolation transformer required:  By EC  Others  
 Line reactor required  
 AC Regenerative drive required  
 Machine blower: FLA: \_\_\_\_\_  
 Voltage: \_\_\_\_\_  AC  DC Phase: \_\_\_\_\_  
 Governor with remote set & reset solenoids:  
 Voltage: \_\_\_\_\_  AC  DC FLA: \_\_\_\_\_  
 Jawless governor (rope slack switch)  
 Reduced stroke buffers: Buffer rating: \_\_\_\_\_ fpm  
 Counterweight safety  
 Battery Lowering (R & R Powervator)  
 By EC  Others

**Hoist Motor:**  Existing  New  New from EC  
 Motor brand:  Reuland  Magil (Reliance)  
 Imperial  
 Other: \_\_\_\_\_  
 HP: \_\_\_\_\_ Voltage: \_\_\_\_\_ FLA: \_\_\_\_\_  
 Frequency: \_\_\_\_\_ Hz. NLA: \_\_\_\_\_  
 Full Load RPM: \_\_\_\_\_ Synchronous RPM: \_\_\_\_\_  
 Number of poles: \_\_\_\_\_  
 2-Speed AC: (measure low and high speed windings)  
 High speed: FLA: \_\_\_\_\_ @ \_\_\_\_\_ fpm  
 Low speed: FLA: \_\_\_\_\_ @ \_\_\_\_\_ fpm  
 Motor mounting:  Foot  Flange  
 Shaft style:  Straight  Tapered

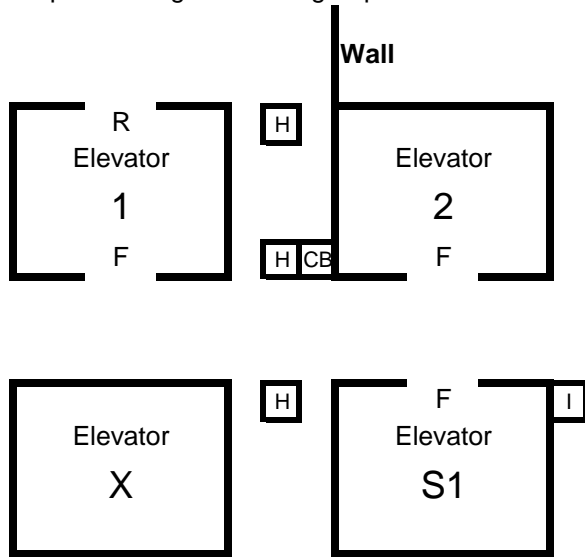
**Velocity Encoder:**  
 Existing  New  New by EC  
 Brand: \_\_\_\_\_ Model: \_\_\_\_\_  
 Encoder Cable:  Customer provided  EC Provided  
 Length Required: \_\_\_\_\_ ft.

**Enclosure Sizes (Nema 1) includes resistor box:**  
 47"H x 22"W x 16"D (Prodigy, 25HP drive max.)  
 63"H x 36"W x 14"D  
 77"H x 36"W x 12"D (standard)  
 77"H x 36"W x 16"D

Additional Information: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Using the grid layout below, identify each elevator by a number/name as appropriate for the building configuration. Place a 'X' through unused hoistways. Indicate location of the hall call pushbuttons, door openings and walls, as shown in the example below.

Example drawing of a 3 car group.

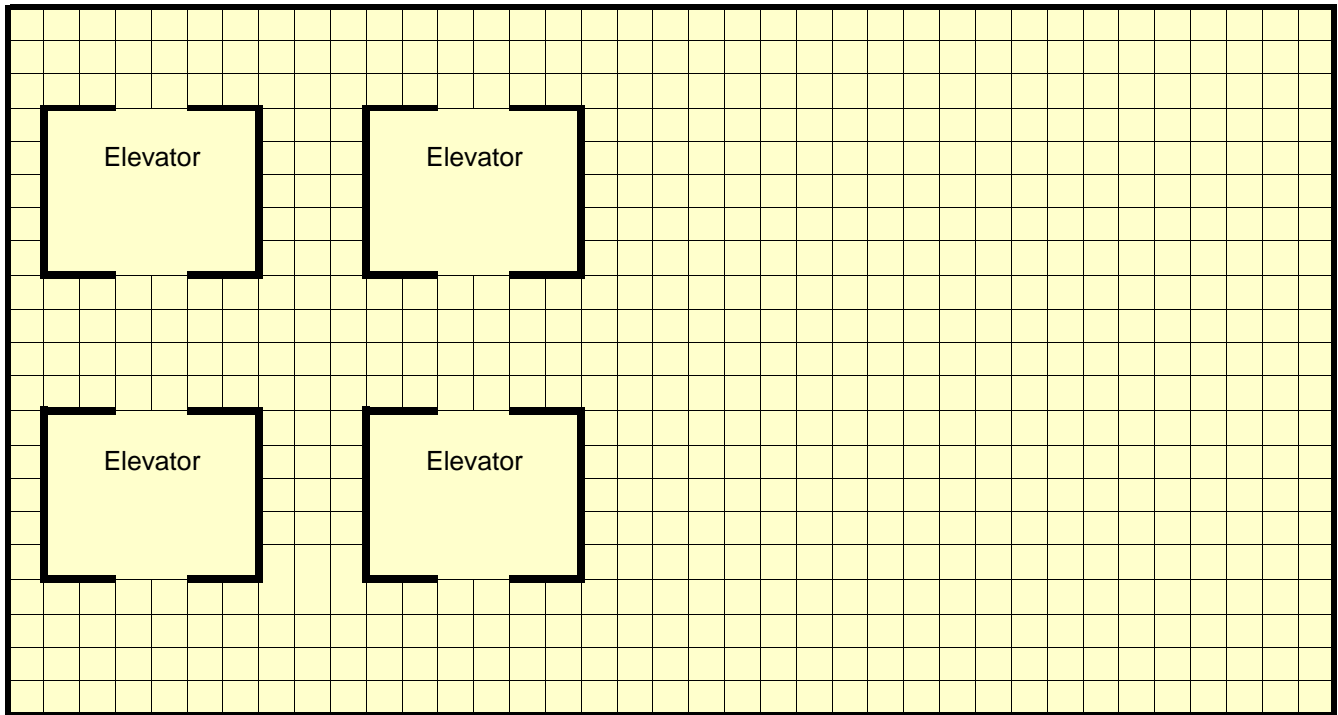


Door openings:  
F = Front opening  
R = Rear opening

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hall Call Risers:  
H Hall call riser (group)  
I Inconspicuous riser  
CB Code Blue (hospital service) riser

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Special instructions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Monitoring Data**

EC Data Form.xls  
Revised 11/20/09

Page  
8 of 8

EC Job Number: —

Machine Room Monitor 19"LCD flat screen  
 Other: \_\_\_\_\_

Special Instructions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remote Monitoring Station:  
 Interact       Liftnet (IDS)  
 Single Group       Multi-group  
 Desktop PC      Quantity: \_\_\_\_\_  
 Laptop PC      Quantity: \_\_\_\_\_  
Monitor Type:  
 19" LCD flat screen (standard)  
 Other: \_\_\_\_\_

Distance from controller to remote PC\*: \_\_\_\_\_ ft.

\*If distance is longer than 400ft. repeaters are required.

Location:

Lobby       Security room  
 Fire control room       Concierge desk  
 Other: \_\_\_\_\_

Communication media:

Ethernet  
 Line driver:  By ECC       Others  
 Modem:  By ECC       Others

Printer required

Using the grid layout below to sketch the remote monitoring system required.

