EC ELEVATOR CONTROLS
A VANTAGE Company
Phone: (916) 428-1708, Fax: (916) 428-1728
Email: sales@elevatorcontrols.com

Pixel | **AC Controller Data Forms**
Project Data
Pixel AC Data Forms.xls | Revised 11/24/2020 | Page 1 of 8
Job Name: | EC Job Number:

Date Received:

Instructions:

1. Please fill out these data forms as completely as possible. Incomplete data may delay delivery.

2. A blank or no selection will be considered as item not applicable to this project.

3. All applicable data should be measured on the existing equipment, when it is to be retained.

4. The bottom landing shall be referred to as 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: <u>Your controller will be built according to the data furnished herein.</u>

EC Quote #: _____ P.O. #: _____ Customer #: _____

Job Name: _____

☐ Yes ☐ No — Job Specifications
☐ Yes ☐ No — Specifications have been sent to EC

Job Location: _____ — Consultant: _____
Job Address: _____ — Contact: _____
Job City: _____ — Phone: _____ Fax: _____
Job State: _____ Zip Code: _____ — Email: _____

Contractor Information:
Company: _____
Contact Name: _____
Address: _____
City: _____
State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

Installation Type: ☐ New Construction ☐ Modernization

Duty Type: ☐ Passenger ☐ Service ☐ Freight

Building Classification:
☐ Office ☐ Hotel, Apartment, Condo
☐ Government ☐ Hospital/Medical Facility
☐ School or University ☐ Prison/Jail
☐ Other: _____

Shipping Information:
Company: _____
Contact Name: _____
Shipping Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____
Notice Required:
☐ 24 Hours ☐ 48 Hours ☐ Other: _____
Shipping Method: ☐ Ground ☐ Air
☐ Lift gate truck required

Motor(s) ship to address (if supplied by EC):
Motor Reference #: _____
☐ Same as above shipping information
Contact Name: _____
Shipping Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

Code Compliance United States:
A17.1-20xx ☐ -16 ☐ -13 ☐ -10 ☐ -07 ☐ -04
☐ Other (specify) - _____

Code Compliance International:
Canada B44- ☐ -16 ☐ -13 ☐ -10 ☐ -07 ☐ -04
☐ Other (specify) - _____

Additional state or local code compliance:
☐ Chicago ☐ Nebraska
☐ GSA/Federal ☐ New York City
☐ Michigan ☐ Washington (Seattle)
☐ Other

☐ Additional Compliance Requirements? Explain
_____
_____
_____
_____

Delivery Schedule	
Controller	Delivery Date (on site)
Car	
Car	
Car	
Car	
Group	
Cross Registration Panel	

Data Forms Completed By:
Name/Title: _____
Phone: _____ Fax: _____
Mobile: _____
Email: _____
Company: _____
Signature: _____

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Instructions:

1. Place an "X" in the appropriate box to indicate a floor opening. (F=Front & R=Rear)
2. To ensure the proper Landa stainless steel coded tape length, indicate all floor heights (including overhead and pit).
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.			
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
	Overhead																								
32																									
31																									
30																									
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12																									
11																									
10																									
9																									
8																									
7																									
6																									
5																									
4																									
3																									
2																									
1																									
	Pit																								

Capacity: ☐ lbs ☐ kg

Speed: ☐ fpm ☐ m/s

Total Travel ☐ ft ☐ m

Traveler* ☐ ft ☐ m

Lobby landing #: _____ Floor Label: _____

Car C.L. = Car Call Lockout Floor
Hall C.L. = Hall Call Lockout Floor
I.R. = Inconspicuous Riser (Swing Op.)

☐ Kellems Grips (total qty): _____

Number of Hoistways: ☐ 1 ☐ 2 ☐ _____   Standard hoistway equipment is NEMA 1 ☐ Other: _____

☐ Final limit switches by EC (needed for traction elevators only, 2 total, cam by others)**

Landa — Each Pixel control system includes Landa, a non-contact encoded car positioning system that features an encoded stainless steel tape and requires no magnets or terminal slow down switches to be installed.

*Specify travel cable length if ordering **Pixel custom travel cable (optional)**. Specify length needed per car.

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

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Pixel
AC Controller Data Forms
Control Features

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Job Name:

EC Job Number:

☐ Machine room space limitations ___ H ___ W ___ D
Explain: _____

Refer to page 6 of data forms for NEMA 1 enclosure sizes

Controller NEMA Rating Requirement:
☐ 1 (standard) ☐ 12 ☐ 4 ☐ 4X
☐ Air conditioned enclosure
☐ Forced air ventilation
☐ Enclosure interior lighting

Type of Operation:
☐ Simplex:
  ☐ Selective Collective   ☐ Single Auto Push Button
  ☐ Down Collective   ☐ Single Button Collective
☐ Group   Number of Cars: _____

Central connection point for communication is usually in the controller for Car #1. Specify lengths for communication cables (Car 1 to Car 2, Car 1 to Car 3, etc.). Allow for an additional 5 feet at each end to permit hookup inside the controller enclosure. _____

Number of hall call risers: _____
☐ Cross Registration Panel

☐ Swing Car Operation: Car(s): _____
  ☐ Key switch in car   ☐ Key switch in hall
  ☐ Automatically switch when IR call is registered
  ☐ Dedicated riser for swing hall calls

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/Hoistway Access Operations:
☐ In-Car Inspection Operation
☐ Hoistway Access Operation
  ☐ Top access switch (top landing):
    Location: ☐ Front   ☐ Rear
  ☐ Bottom access switch (bottom landing):
    Location: ☐ Front   ☐ Rear

In-Car Switch Type(s):
  ☐ 2-position Access Enable Switch
  ☐ 2-position In-Car Inspection Switch
  ☐ 3-position Inspection and HW Access switch

Operation on In-Car Inspection requires an Enable button and separate Up & Down buttons inside elevator cab.

☐ Attendant Operation   ☐ Annunciator panel in car
Car to Lobby Switch: ☐ Car ☐ Hall ☐ Other ___
  ☐ Cancel car calls immediately   ☐ Answer new car calls
Park with doors: ☐ Open   ☐ Closed
Return Landing #: _____   Floor Label: _____
☐ Earthquake Operation:
  ☐ A17.1-16 compliance (HW scan switch, indicators, etc.)
  ☐ Seismic switch   ☐ Counterweight derailment device
  ☐ Car operates on fire or hosp. 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 elevators cannot be seen from the selection switch location.
☐ Emergency Medical Technician Service (EMT):
  Return Landing #: _____   Floor Label: _____
☐ Fan & Light Timer Operation (Elevator Cab)
☐ Hospital Service (Code Blue): (indicate landings served on page 2)
  # of cars allowed to run on hospital service: _____
  Hospital Service Phase 2 Operation initiated by:
  ☐ Hospital phase 2 switch   ☐ Independent service switch
  ☐ Other (explain): _____
☐ Independent Service Switch: ☐ Car (std.)   ☐ Hall
☐ Load Weighing: ☐ By EC   Mfg: _____
  ☐ Rope Tension ☐ X-head Deflect ☐ Isolated platform
  ☐ Dry contact load weigher signals (not for pre-torque):
    ☐ Hall call bypass ☐ Anti-nuisance ☐ Overload
☐ Pit Flood Operation   Return landing: _____
☐ Sabbath Operation
☐ Security (check applicable requirements below)
  ☐ Call lockout: (indicate landings served on page 2)
    ☐ Car: ☐ Card Reader ☐ Key ☐ Other: ___
    ☐ Hall ☐ Card Reader ☐ Key ☐ Other: ___
  ☐ Call lockout override switch: ☐ Car   ☐ Hall
  ☐ Car call security (enter code using car call buttons)
  ☐ Bypass Security: (bypass on fire service is standard)
    ☐ Independent Service   ☐ Attendant Service
    ☐ Other: _____

Additional features required: _____
_____
_____
_____
_____
_____

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Pixel — **AC Controller Data Forms**

Indicators

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Job Name:

EC Job Number:

The Pixel control system requires all fixtures to be 24VDC, 3-6 watts maximum.

Car Call Registration Indicators:
Pixel Standard - CAN communication to COP
- [ ] Auxiliary COP(s)
  - # of car stations per car: _____

Hall Call Registration Indicators:
Pixel Standard - CAN communication to HALL
- [ ] Hall Calls through CAN Communication
- [ ] Hall Calls through discrete I/O

Number of hall call risers: _____
  If more than 2 hall call risers, please explain on page 7 (Hoistway Layout).

Passing Floor Chime:
- [ ] EC 3-wire C.E. Micro Comm   - [ ] EC 3-wire E-Motive
- [ ] Pixel COP (24VDC, 6W max.)
- [ ] Passing floor enable button ("S" button)

Position Indicators:
- [ ] EC 3-wire C.E. Micro Comm   - [ ] EC 3-wire E-Motive
- [ ] DL-20

PI CAN network interface
- [ ] MAD   - [ ] VEGA   - [ ] E-Motive   - [ ] HM
- [ ] ELEVAKE   - [ ] Other: _____

- [ ] Car position indicator
- [ ] Hall position indicator
  - Location(s): [ ] Main Fire   [ ] All Floors
    [ ] Other: _____
- [ ] Voice annunciation device
  CE Micro Comm, Emotive 3-wire or CAN driven only

Lanterns:
- [ ] Car lanterns: [ ] Chime   [ ] Gong
  - [ ] EC 3-wire C.E. Micro Comm   [ ] EC 3-wire Emotive
  - [ ] Pixel COP (24VDC,6W max.)
- [ ] Hall lanterns: [ ] Chime   [ ] Gong
  - [ ] EC 3-wire C.E. Micro Comm   [ ] EC 3-wire Emotive
  - [ ] Pixel Hall System (24VDC,6W max.)
    CAN Communication via P-HALL boards (1 per floor)
  - Location(s): [ ] All Floors   [ ] Lobby Only
    [ ] Other: _____

Delivery of Fixture Node Boards (Pre-wiring)
- [ ] Ship Fixture Node Boards with Controller
- [ ] Ship Fixture Node Boards in advance to:

Company: _____
Contact Name: _____
Phone #: _____   Ref #: _____
Email: _____
Address: _____
City: _____   State: _____   Zip: _____

Miscellaneous Fixtures (24VDC, 3W max.):
Indicator description:
- [ ] Emergency power light (Hall)
- [ ] Emergency power panel lights
- [ ] Fire service light (COP & Hall)
- [ ] Fire control panel (provide fixture prints/details)
- [ ] Heavy load light (Hall)
- [ ] Hospital service light (COP)
- [ ] Hospital service buzzer (COP)
- [ ] In-use Lights
- [ ] Lobby control panel (provide fixture prints/details)
- [ ] Overload light / buzzer (COP)
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

CAN Serial Hall Call/Lantern RJ45 Connection Options
NOTE: The standard cable package will be provided if no alternate selection is made.

Standard Cable Package
- Controller-to-first node: Length: 25 ft
- Floor-to-floor: One per floor, Length 14 ft, **or**
- Floor-to-floor: Two per floor, Length 7 ft (if hall lanterns)
- Splitter-to node: One per node, Length 5 ft
- Splitter-to-node (one per Access Switch): Length 7 ft
- Fire Switch Node to Hall Call Node (one): Length 6 inches
- Splitters (enough for standard node network)

- [ ] Alternate lengths needed (indicate quantity and lengths)
  - Controller-to-first node: Length: _____
  - Floor-to-floor: Qty: _____   Lengths: _____
  - Splitter-to-hall node: Qty: _____   Lengths: _____
  - Splitter-to-access nodes: Qty: _____   Lengths: _____
  - Fire Switch Node to Hall Call Node: Length: _____

Additional Comments:

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Pixel **AC Controller Data Forms**
Door Information

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Job Name:

EC Job Number:

☐ New door operator:
- Supplier:
- Contact:
- P.O.#:   Phone:

☐ Existing door operator

Automatic Passenger Door Operators:

Place an "X" in the appropriate box(es) to indicate door operator (F = Front and R = Rear). Operators shown in *italics* require interface module mounted on cartop.

F	R			
☐	☐	GAL MOVFR:	☐ 230V	☐ 115V
☐	☐	*GAL MOD (shunt wound):*	☐ 230V	☐ 115V
☐	☐	*GAL MODPM:*	☐ 230V	☐ 115V
☐	☐	*GAL MOM/MOH*		
☐	☐	MAC PM-SSC		
☐	☐	ECI: ☐ 895 ☐ 1000 ☐ 2000 ☐ VFE2500		

F	R			
☐	☐	Atlantic Tech	☐ 9001	☐ 9003
☐	☐	Dover/TKE: ☐ *HD73* ☐ *HD85* ☐ *DC68*		
☐	☐	Dover/TKE: ☐ HDLM ☐ PA LULA		
☐	☐	Fermator VVVF5		
☐	☐	IPC Encore (closed loop) ☐ D2000 ☐ D3000		
☐	☐	KONE AMD		
☐	☐	MCE Smartraq		
☐	☐	Nova BG101		
☐	☐	Otis AT400 ☐ Customer-supplied Pwr Supply		
☐	☐	*Otis 6970A (Reactance)*		
☐	☐	R&R DC244		
☐	☐	*Schindler QKS:* ☐ *14* ☐ *15*		
☐	☐	Other:*		

*Please send/provide door operator wiring diagrams.

Door Features:
☐ Infrared detector/dual-beam photo eye unit:
- ☐ By EC (Weco-917P-2D) ☐ Customer Provided
- ☐ 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

Notes:

Car Gate and Hoistway Doors:
☐ Automatic car gate
☐ Manual car gate
☐ Gate release solenoid: Voltage: V   Phase
- Current: A   Description:

☐ Electric Door Restrictor
- Brand: Model:

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: V ☐ DC ☐ AC
- Current: A   Phase:
- Notes:

Power Freight Doors:
☐ Door operator wiring diagrams have been sent to EC*
☐ Courion: ☐ MP ☐ iLearn   Other:
☐ EMS (provide prints)   Model:
☐ Peelle: ☐ PLC ☐ Wireless   Other:
☐ Other (provide prints):

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:

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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 (Perm. Magnet) ☐ Induction
Roped: ☐ 1:1 ☐ 2:1 ☐ Underslung
☐ Ropes are 8mm (0.315") diameter or smaller

Main 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
If measured: ☐ Hot ☐ Cold
Contact on Brake: ☐ N/O (closed = brake is picked)
☐ N/C (open = brake is picked)

Emergency Brake (required on A17.1-2000 and later)**:**
☐ Rope brake: ☐ Hollister Whitney ☐ Draka RB500
☐ Other Brand: _____ Model: _____
☐ Independent brake on machine # of coils: _____
Voltage picking: _____ Voltage Holding: _____
Resistance: _____ Ohms
Other (explain): _____

Additional Requirements:
☐ Isolation Xfrmr ☐ By EC Nema rating: _____
☐ Line reactor
☐ Motor choke or output filter
☐ AC Regenerative Drive
☐ 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 Power Rescue
  ☐ By EC Nema rating: _____
☐ MRL Test/Rescue System with Video

Hoist Motor: ☐ Existing ☐ New ☐ New from EC
Motor brand: ☐ Reuland ☐ Magil (Reliance)
☐ Imperial ☐ TorinDrive
☐ Other: _____

Induction Motor Data
HP: _____ Voltage: _____
Frequency: _____ Hz. FLA: _____ NLA: _____
Full Load RPM: _____ Synchronous RPM: _____
Number of poles: _____ Model #: _____

Motor mounting: ☐ Foot ☐ Flange
Shaft style: ☐ Straight ☐ Tapered

PM Motor Data
HP: _____ Rated Frequency: _____ Hz.
Rated Voltage: _____ Rated Amps: _____
Peak Voltage: _____ Peak Amps: _____
Number of poles: _____ RPM: _____
Model #: _____

Velocity Encoder:
☐ Existing ☐ New ☐ New by EC
(If New by EC) Live motor shaft diameter: _____
Brand: _____ Model: _____
Encoder Pulses: _____ PPR

Encoder Cable provided by:
☐ Customer ☐ By EC Length: _____ ft.
  (if by EC)

NEMA 1 Enclosure Sizes (includes resistor box):
Select a Nema 1 enclosure if a specific size is preferred. EC Manufacturing will determine if the required components will fit within the enclosure selected, and will advise if not possible. If no selection is made, EC will select the smallest enclosure size possible.
☐ 53"H x 36"W x 12"D (wall mount & lift off door)
☐ 63"H x 36"W x 14"D (wall mount & lift off door)
☐ 77"H x 36"W x 13"D (floor mount & single door)
☐ 77"H x 36"W x 17"D (floor mount & single door)
☐ 77"H x 47"W x 17"D (floor mount & double door)

☐ Hinged door option
☐ Legs for floor-mounting a wall-mount enclosure
  ☐ 12" (single) ☐ 24" (double)

Additional Information: _____
_____
_____
_____

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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.

Wall

R
Elevator
1
F

H

H CB

Elevator
2
F

Elevator
X

H

F
Elevator
S1

I

Door openings:
F = Front opening
R = Rear opening
Notes:

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

Elevator

Elevator

Special instructions:

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☐ Machine Room Monitor (20" LCD is standard)
  ☐ Other: _____

The central connection point for the Machine Room PC is located at the PC. Specify lengths for communication cables (Car 1 to PC, Car 2 to PC, Car 3 to PC, etc.). Allow for an additional 5 feet to permit hookup inside the controller enclosure. _____

☐ Remote Monitoring Station(s):
  ☐ Interact   ☐ Liftnet (IDS)
  ☐ Single Group   ☐ Multi-group
    ☐ Desktop PC   Quantity: _____
    ☐ Laptop PC   Quantity: _____
  Monitor Type:
    ☐ LCD flat screen (standard)
    ☐ Other: _____
  Distance from controller to remote PC*: _____ ft.
    *If distance is longer than 400ft. repeaters are required.
  Remote workstation location(s):
    ☐ Lobby   ☐ Security room
    ☐ Fire control room ☐ Concierge desk
    ☐ Other: _____
  Communication media:
    ☐ Ethernet
    ☐ Line driver: ☐ By EC   ☐ Others
☐ Printer(s) required   Quantity: _____

Special Instructions: _____

Interfaces to 3rd Party Monitoring Systems
  ☐ Kings III
  ☐ Schindler Lobby Vision (dry contact interface)
  ☐ Mitsubishi MelEye (dry contact interface)
  ☐ Other (describe): _____

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

Group 1	Group 2	Simplex		
Remote PC #1				Remote PC #2