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HYDRAULIC

Engineering Data Form – Page 1

200527

Warning: Review Before Submittal

- Failure to Provide Accurate and Complete Information could result in the following: Delayed Controller Shipment, Price Change, and Incurred Engineering Charges.
- If a job specification is included you must complete the 'Build to Job Specification' section on page 3.
- All Fixtures must be 24 VDC/6 Watts Max.
- If a category is not completed, the **default** option will be assumed.

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This document can be edited, saved, and submitted electronically using Adobe Reader.

Job Details

Job Name:
PO #:
Job Location (City & State)

Market Segment:

☐ Federal

☐ Education

☐ Health Care

☐ Hospitality

☐ Financial

☐ Residential

☐ Other

Purchasers Information: (If packager fill in End User Info on right)

Name:
Title:
Company:
Phone: Fax:
Cell:
Email:

Engineering Contact Information: (If different than above)

Name:
Phone: Fax:
Cell:
Email:

Date Filled Out

End User Information: (for packager use only)

Name:
Title:
Company:
Phone: Fax:
Cell:
Email:

Notes and Special Instructions

Shipping Information

Contact Name:

Phone:

Contact Fax/Email:

Smartrise Call Prior to Shipping:

☐ Yes

☐ No

Carrier Call for Delivery Appointment:

☐ Yes

☐ No

Lift Gate Required:

☐ Yes

☐ No

Freight Terms

Use Smartrise Carrier:

☐ Yes

☐ No

☐ Will Call

☐ Pre-paid

Customer's Carrier Name:

Carrier's Account Number:

☐ Collect

☐ Third Party

Third Party Billing (Duites & Taxes)

Ship to Name/Company:

Shipping Address:

Bill To Address:

Shipping Schedule

Controller(s)	Desired Ship Date from Smartrise	Controller(s)	Desired Ship Date from Smartrise

Note: Desired ship date from Smartrise is not an arrival date.

Additional Shipping Instructions

Pre-wire Fixtures (Must be 24 VDC/6 Watt Max)

Not Required ☐

Pre-wire COP Boards:

☐ Yes

☐ No (Default)

Pre-wire Hall Boards:

☐ Yes

☐ No (Default)

Fixture Manufacturer

☐ Innovation

☐ Monitor

☐ PTL

☐ ECC

☐ MAD

☐ Otis

☐ Other

Company Name:

Ship to Address:

RSL Car Calls

☐

RSL Hall Calls

☐

Job Reference:

Contact Person at Mfg.

Electrical Main Line and Transformer Specification

Main Line Specification:

 Main Line Volts (Transformer required if motor volts are different more than 10%)☐ Three Phase (Default)☐ Single Phase Hz (Main Line is 60Hz unless stated otherwise)

Main Line Transformer (If Customer Requires)

☐ Provided by Smartrise☐ Provided By Customer (customer to provide drawing) Secondary Voltage kVA☐ Data Plate Copy Included

Configuration

☐ Simplex # Cars☐ Group # Cars in Group # of Hall Risers/Group☐ Group Redundancy Swing Riser, Car # ☐ Selective Collective (2 buttons/floor, multiple calls)☐ Non-Selective Collective (1 button/floor, multiple calls)☐ Non-Selective Non-collective (1 button/floor, 1 call at a time)

Build to Job Specifications

Not Required

☐ We will review the spec and will provide a list of exceptions when necessary.☐ Job needs to be built to meet Engineering Specifications in Document provided EXCEPT those listed below (Provide Page/Section & Description of exceptions)

Environmental Considerations

Not Required

☐ Controller Cabinet Air-pressure cooled (add Vortex)
(Customer to provide Air Compressor)☐ Controller Cabinet Air conditioned cooled (add A/C Unit) Controller☐ Cabinet Forced Air cooled (add Fan and Filter)☐ Arc Flash Protection☐ Special attention to hoistway shaft (provide details in notes below)☐ Outdoor or Hostile (Industrial Environment) NEMA Rating for Machine Room Controller
Cabinet (If required, default NEMA 1) NEMA Rating for Top of Car Enclosure
(If required, default NEMA 1) NEMA For Landing System
(If required, default NEMA 1)

Connection Package (Run Box)

☐ SmartConnect Package - Recommended
(Pre-Wired Car Top Inspection Box Included)

Car Operating Panel

☐ Single Panel (Default)☐ Other☐ Dual Panels☐ Remote Panel

Notes and Special Instructions

ASME 17.1 Elevator Safety Code Compliance

☐ 2016☐ 2013☐ 2010☐ 2007☐ 2004☐ 2000

Additional Local Code

☐ NYC (Appendix K)☐ No Fire Service☐ MASSACHUSETTS

Controller Layout Preference

☐ Standard (MR, CT, and COP) (Default)☐ No Cartop☐ No COP☐ Custom:

We will notify you if the preference chosen cannot be honored

Hydraulic Features, Motor, and Valve Data

Hydraulic Features
☐ Features for all cars is the same as car 1)
Failure to provide data will result in delay of controller shipment
Not Applicable
☐

Car	Contract Speed	Capacity	Battery Lowering	Low Pressure, Low Oil, and Oil temp are all included.	Viscosity Control	Adams Life Jacket	Roped	Gov Reset Coil Is	
1			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Is 24vdc	<input type="checkbox"/> Is 120vac
2			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Only if Roped Hydro									

Motor & Valve Data
☐ Data for all cars is the same as car 1)
Failure to provide data will result in delay of controller shipment

Car	# Motor Leads	Motor Volts	FLA	HP	Valve Brand/Model	Valve Volts	# of Valves (1 Standard)	# of Coils (4 Standard)	Dual Jacks
1									<input type="checkbox"/>
2									<input type="checkbox"/>
3									<input type="checkbox"/>
4									<input type="checkbox"/>

Hydraulic Motor Control Preference

☐ Sprecher+Schuh (Soft Starter) (Default)
☐ Siemens (Soft Starter)
☐ Wye-Delta (via Contactors)
☐ Across the Line (via Contactors)

We will notify you if the preference chosen cannot be honored

Notes and Special Instructions

Special Features		Not Required <input type="checkbox"/>
<input type="checkbox"/> Remote (2 nd) Fire Keyswitch & Lamp	<input type="checkbox"/> Shunt-Trip	
<input type="checkbox"/> Earthquake (Includes Buzzer and Lamp)	<input type="checkbox"/> Flood Sensor	
<input type="checkbox"/> Car-to-Lobby Keyswitch	<input type="checkbox"/> 'S' Button	
<input type="checkbox"/> Fan and Light Auto Shutoff Circuit (CT only)		
<input type="checkbox"/> Machine Room Cabinet Light		
<input type="checkbox"/> Machine Room Cabinet Power Plug		
<input type="checkbox"/> Mechanical Normal Limits (Mechanical Switches not provided by Smartrise)		

Special Modes of Operation		Not Required <input type="checkbox"/>
<input type="checkbox"/> Independent Service (Default)		
Hoistway Access <input type="checkbox"/> Yes (Default) <input type="checkbox"/> No		
<input type="checkbox"/> In-Car Inspection Switch (uses top/bottom car calls)		
<input type="checkbox"/> CT Inspection will not work unless an In Car Key Switch is active (Access or IC Inspection)		
<input type="checkbox"/> Non-standard		
<div style="border: 1px solid black; padding: 5px;"> Medical Emergency Service (provide floor(s) on page 8) <div style="margin-top: 5px;"> <input type="checkbox"/> Building is a Hospital with keys at every floor <small>In Car Buzzer, In Car Lamp, and Hallway Lamp at each Floor are included</small> </div> <div style="margin-top: 5px;"> <input type="checkbox"/> Non-hospital – Phase 1 key at main level only <small>In Car Buzzer and In Car Lamp are included</small> </div> </div>		
<input type="checkbox"/> Sabbath (Attach spec)		
<input type="checkbox"/> Times Start <input style="width: 100px;" type="text"/> End <input style="width: 100px;" type="text"/>		
<input type="checkbox"/> Key Switch		
<input type="checkbox"/> Patient Security		
Other (Attach spec) <div style="border: 1px solid black; height: 30px; margin-top: 5px;"></div>		

Emergency Power (if generator cannot run all cars) Not Required <input type="checkbox"/>	
E.P. Contact from Generator is <input type="checkbox"/> Normally Open <input type="checkbox"/> Normally Closed	
Power Pre-Transfer Contact from Generator is <input type="checkbox"/> Normally Open <input type="checkbox"/> Normally Closed <input type="checkbox"/> Not Present (Default)	
<input type="checkbox"/> Emergency Power Car Selector Switch <input type="checkbox"/> Single Car Selection <input type="checkbox"/> Multiple Car Selection (provide details below) (Default)	
<input type="checkbox"/> Number of cars the generator can operate simultaneously. <small>(Default value is 1 car)</small>	
<input type="checkbox"/> Generator powers other Simplex/Groups.	

Car Call Security (specify floors on page 9) Not Required <input type="checkbox"/>	
<input type="checkbox"/> Using COP Floor Buttons as Code Entry	
<input type="checkbox"/> Using Dry Contacts from Card Readers and/or Keyswitches <input type="checkbox"/> Inputs in Car Station (Default) <input type="checkbox"/> Inputs in Machine Room	
<input type="checkbox"/> Override Security When on Independent Service or Attendant Service	
<input type="checkbox"/> Provide a Car Call Security Override Input <input type="checkbox"/> Input in Car Station (Default) <input type="checkbox"/> Input in Machine Room	
<input type="checkbox"/> Door Open Button Functions on Secured Landings	
Other Considerations <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>	

Hall Call Security Not Required <input type="checkbox"/>	
<input type="checkbox"/> Provide Enable/Disable all Hall Calls Input (simplex)	
<input type="checkbox"/> Provide a Hall Call Security Override Input (per floor) <input type="checkbox"/> Dry Contacts in Hall Fixtures <input type="checkbox"/> Signals in Machine Room (Default)	
Other Considerations <div style="border: 1px solid black; height: 50px; margin-top: 5px;"></div>	

Controller Monitoring System Not Required <input type="checkbox"/>	
<u>Designed and Manufactured by Smartrise Engineering</u>	
Quantity of Additional Viewing Devices <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div> <input type="checkbox"/> 19.5 Inch (All-in-One Computer) </div> <div> <input type="checkbox"/> 21 Inch (All-in-One Computer) </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div> <input type="checkbox"/> 24 Inch (All-in-One Computer) </div> <div> <input type="checkbox"/> 27 Inch (All-in-One Computer) </div> </div>	
<input type="checkbox"/> Machine Room Monitoring	
<input type="checkbox"/> Local Monitoring (Lobby/Engineering/Management)	
<input type="checkbox"/> Remote Monitoring (Cloud) – Requires Internet Connection	
<u>Designed and Manufactured by Integrated Display Systems</u>	
<input type="checkbox"/> Lift-Net (Interface only)	
<u>Designed and Manufactured by Kings III of America</u>	
<input type="checkbox"/> ORM (Interface only)	
<input type="checkbox"/> BACnet	

Lobby Panel		Not Required
<input type="checkbox"/> Door Open Lamp	<input type="checkbox"/> In Use Lamp	
<input type="checkbox"/> On Independent Svc. Lamp	<input type="checkbox"/> In Service Lamp	
<input type="checkbox"/> Emergency Power Lamp		
Other Requirements		

Car Door

Door Type 1	Use this door for all cars, or specify which cars use it				
	All <input type="checkbox"/> F <input type="checkbox"/> R	Car 1 <input type="checkbox"/> F <input type="checkbox"/> R	Car 2 <input type="checkbox"/> F <input type="checkbox"/> R	Car 3 <input type="checkbox"/> F <input type="checkbox"/> R	Car 4 <input type="checkbox"/> F <input type="checkbox"/> R

Hall Door Type

☐ Auto Passenger (Default)
 ☐ Powered Freight (see * below)
 ☐ Manual
 ☐ Other

Select Door Operator

<input type="checkbox"/>	Abell	ATS 0090	Field "EZ"
<input type="checkbox"/>	GAL	MODCTL	24vdc interface relays
<input type="checkbox"/>	GAL	MOD	L, G, or X
<input type="checkbox"/>	GAL	MOVFR	230vac input voltage
<input type="checkbox"/>	Kone	Mac	104 or 105D interface board
<input type="checkbox"/>	Kone	PMSSC	104 or 105D interface board
<input type="checkbox"/>	Otis	AT-400	240 AC/120 VDC Interface Glide A (Discrete)
<input type="checkbox"/>	Otis	AT-400/Glide P	Multi-Drop (Serial)
<input type="checkbox"/>	TKE	Dover HD-03	Requires IO Card: 6300TX2 (110vac)
<input type="checkbox"/>	TKE	Dover HD-73	Type D/I/O
<input type="checkbox"/>	TKE	Dover HD-91	DC Motor
<input type="checkbox"/>	TKE	HDLM	Requires UIT_I/O Card
<input type="checkbox"/>	Fermator	VVVF5	Linear Door Operator
<input type="checkbox"/>	None		Manual Car Gate
<input type="checkbox"/>	Peelle	Wireless	*Input Freight/door information at bottom
<input type="checkbox"/>	Courion	ILearn	
<input type="checkbox"/>	EMS		
<input type="checkbox"/>	Other		*Input Other door information at bottom

☐ **Door Protection**

☐ Photo Eye/Light Curtain (Default)
 ☐ Mechanical Safety Edge
 ☐ Door Hold Button

☐ **Cam**

☐ Mechanical
 ☐ DC
 ☐ AC (3 Phase)
 ☐ AC (Single Phase)

Volts	Amps

☐ **Gate Release**

☐ DC
 ☐ AC (3 Phase)
 ☐ AC (Single Phase)

Volts	Amps

Other Door Considerations

* Freight/Other Door Operator Info

Manufacturer

Model

Reference #'s

Job Prints from Door Manufacturer are Required

Door Type 2	Use this door for all cars, or specify which cars use it				
	All <input type="checkbox"/> F <input type="checkbox"/> R	Car 1 <input type="checkbox"/> F <input type="checkbox"/> R	Car 2 <input type="checkbox"/> F <input type="checkbox"/> R	Car 3 <input type="checkbox"/> F <input type="checkbox"/> R	Car 4 <input type="checkbox"/> F <input type="checkbox"/> R

Hall Door Type

☐ Auto Passenger (Default)
 ☐ Powered Freight (see * below)
 ☐ Manual
 ☐ Other

Select Door Operator

<input type="checkbox"/>	Abell	ATS 0090	Field "EZ"
<input type="checkbox"/>	GAL	MODCTL	24vdc interface relays
<input type="checkbox"/>	GAL	MOD	L, G, or X
<input type="checkbox"/>	GAL	MOVFR	230vac input voltage
<input type="checkbox"/>	Kone	Mac	104 or 105D interface board
<input type="checkbox"/>	Kone	PMSSC	104 or 105D interface board
<input type="checkbox"/>	Otis	AT-400	240 AC/120 VDC Interface
<input type="checkbox"/>	Otis	AT-400/Glide P	Multi-Drop
<input type="checkbox"/>	TKE	Dover HD-03	Requires IO Card: 6300TX2 (110vac)
<input type="checkbox"/>	TKE	Dover HD-73	Type D/I/O
<input type="checkbox"/>	TKE	Dover HD-91	DC Motor
<input type="checkbox"/>	TKE	HDLM	Requires UIT_I/O Card
<input type="checkbox"/>	Fermator	VVVF5	Linear Door Operator
<input type="checkbox"/>	None		Manual Car Gate
<input type="checkbox"/>	Peelle	Wireless	*Input Freight/door information at bottom
<input type="checkbox"/>	Courion	ILearn	
<input type="checkbox"/>	EMS		
<input type="checkbox"/>	Other		*Input Other door information at bottom

☐ **Door Protection**

☐ Photo Eye/Light Curtain (Default)
 ☐ Mechanical Safety Edge
 ☐ Door Hold Button

☐ **Cam**

☐ Mechanical
 ☐ DC
 ☐ AC (3 Phase)
 ☐ AC (Single Phase)

Volts	Amps

☐ **Gate Release**

☐ DC
 ☐ AC (3 Phase)
 ☐ AC (Single Phase)

Volts	Amps

Other Door Considerations

Notes and Special Instructions:

Floor Information			Floor Openings				Car Call Security				Hall Call Security				Hosp	
	Floor Label	Floor Height	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4	Car 1	Car 2	Car 3	Car 4		
Overhead -> (Default 13ft)																
15																
14																
13																
12																
11																
10																
9																
8																
7																
6																
5																
4																
3																
2																
1																
Default PI labels Pit -> (Default 4ft)			Pit				Pit				Pit				Pit	
			<input type="checkbox"/> All cars same as Car 1 <input type="checkbox"/> All walk-through <input type="checkbox"/> All front Number of floors: <input type="text"/>				<input type="checkbox"/> All cars same as Car 1 <input type="checkbox"/> All walk-through <input type="checkbox"/> All front Number of floors: <input type="text"/>				<input type="checkbox"/> All cars same as Car 1 <input type="checkbox"/> All walk-through <input type="checkbox"/> All front Number of floors: <input type="text"/>					

If mixed F/R please select boxes above.

☐ Include Hall Network Cat5 package
 Controller (MR) to Hall Network (Hoistway) CAT5 Cable Length
 ☐ 25 ft (Default)
 ☐ 50 ft
 ☐ 100 ft

Hoistway Considerations

☐ Ambient Light Present in Hoistway
☐ Corner Post Rails

	Total Hoistway Height (ft)
Car 1	
Car 2	
Car 3	
Car 4	

☐ All cars same as Car 1

Walkthrough Only: Top
 Location of Hoistway Up/Dn Switch Car#s

F R
☐ ☐

Walkthrough Only: Bottom
 Location of Hoistway Up/Dn Switch Car#s

F R
☐ ☐

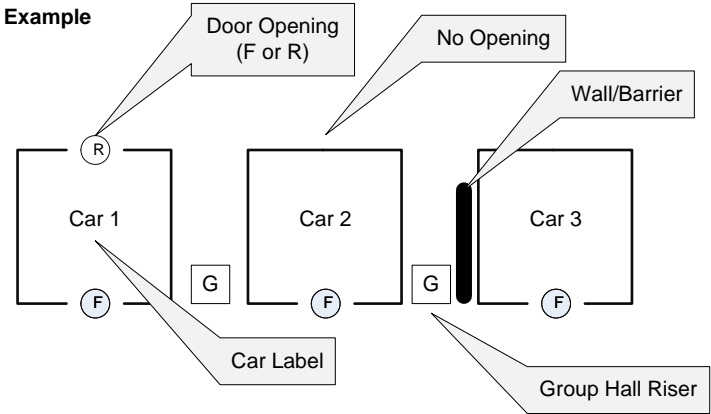
Overlay with Existing Equipment

☐ Cross Cancellation System
☐ Cross Registration System

When you choose one of the above a Smartrise engineer will contact you to gather details about the existing elevator controllers.

Important: Provide Physical Layout on Sheet 9

Elevator(s) Physical Layout



Draw a topographical map of elevator(s) location on grid provided.

- * Accurately label each car by number/letter
- * Mark openings: F (front) or R (rear)
- * Label risers as:
 - G = Group Riser
 - I = Inconspicuous Riser
 - H = Hospital Service Riser
- * Draw in walls/barriers (heavy line)

Notes/Special Considerations