

HYDRO:EVOLVED

Engineering Data Form - Page 1

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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.

Hydraulic - Table of Contents							
1. Job Information	Features and Functions (II)						
2. Shipping and Pre-Wire	7. Cables and Fixtures						
3. General Controller Information	8. Car Door Data						
4. Motor and Valve Data	9. Landings and Openings						
5. Features and Functions (I)	10. Elevator(s) Physical Layout						
This document can be edited, saved, and submitted electronically using Adobe Reader.							

	7
Job Details	
Job Name: PO #: Job Location (City & State)	Market Segment: Financial Federal Health Care Residential Education Hospitality Other
Purchasers Information: (If Packager, Fill in End User Info on Right)	End User Information: (For Packager Use Only)
Name: Title:	Name:
Company:	Company:
Phone: Fax: Cell:	Phone: Fax: Cell:
Email:	Email:
Engineering Contact Information: (If different than above)	Job Site Address: (Address Where Controller(s) Will Be Installed)
Name: Phone: Fax:	Street:
Email:	City: State:
Date Filled Out	Zip Code:
Building Owner/Manager Information	FULL ELEVATOR SYSTEMS

Building Owner/Manager Information Name: Phone: Email: Street: City: State: Zip Code:

Should you have a need for complete or partial elevator systems, contact Smartrise Sales for more information.

Smartrise Packager Partners

* Alliance * AVT Beckett * Delaware Elevator Manufacturng * Dura-Vator * EECO * EV Elevator International (EEVI) * Lift Solutions * MEI * Phoenix Modular * SEES - Southern Elevator & Electrial Supply * Trumph Electric*

Shipping and Pre-Wire

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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	Customer's Carrier Name: Carrier's Account Number: Collect Third-Party Third-Party Billing (Duties & Taxes)	
Pre-paid		
Ship to Name/Company: Shipping Address:	Bill To Address:	
Shipping Schedule		
Controller(s) Desired Ship Date from	Smartrise Controller(s) Desired Ship Date from	m Smartrise
Note: Desired ship date from Smartrise is not an arrival dat	<u> </u>	
Additional Shipping Instructions	·	
Additional Shipping montaness		
Figure (Mist be 24 V/DC / 6 Wett May)	Not	Required (
Pre-wire Fixtures (Must be 24 VDC / 6 Watt Max) Pre-wire COP Boards: Yes No (Default)	INOLI	Required
Pre-wire Hall Boards: Yes No (Default)		
Fixture Manufacturer	Company Name:	
	Ship to Address:	
EPCO MAD SEES		
Elevator Cabs and Surfaces		
Job Reference:	Contact Person at Mfg.	

Electrical Main Line and Transformer Specification	Configuration					
·	Configuration					
Main Line Specification: Main Line Volts (Transformer required if there is more than a 10% difference between the main line and motor volts)	Simplex # Cars					
Three Phase (Default)	Group # Cars in Group # of Hall Risers/Group					
vac L1 to GND vac L2 to GND vac L3 to GND	Swing Riser, Car #					
Single Phase	Selective Collective (2 buttons/floor, multiple calls) (Default)					
Hz (Main Line is 60Hz unless otherwise stated)	Non-Selective Collective (1 button/floor, multiple calls)					
Main Line Transformer (If Customer Requires)	Non-Selective Non-collective (1 button/floor, 1 call at a time)					
Provided by Smartrise(Aluminum Isolation Transformers are standard)	Other:					
Provided By Customer (Customer to provide drawing)						
Secondary Voltage	Smart Dispatching Not Required					
kVA	Lobby Boost (Lobby Only)					
Data Plate Copy Included	Destination Dispatching Not Required					
Environmental Considerations Not Required	# of Kiosks per Floor					
Controller Cabinet Air-pressure cooled (Add Vortex) (Customer to provide Air Compressor)	Full (All Floors)					
(Customer to provide Air Compressor)	Hybrid (Kiosks/Conventional Hall Riser Combination)					
Controller Cabinet Air conditioned cooled (Add A/C Unit) Controller	Specify Floor (Labels) with Kiosks:					
Cabinet Forced Air cooled (Add fan and filter)	Build to Job Specifications Not Required					
Arc Flash Protection	We will review the spec and provide a list of exceptions, when					
Special attention to hoistway shaft (Provide details in notes below)	necessary					
Outdoor or Hostile (Industrial Environment)	Job needs to be built to meet Engineering Specifications in Document provided EXCEPT those listed below (Provide					
Machine Room Controller Cabinet NEMA Rating:	page/section and description of exceptions)					
1 (Default) 4 4X 7 12						
Top of Car Enclosure NEMA Rating:						
1 (Default) 4 4X 7 12						
Landing System NEMA Rating:						
1 (Default) 4 4X 7 12	ASME 17.1 Elevator Safety Code Compliance					
*NEMA 4/4X requires ELGO Landing System	2019					
	Additional Local Code					
Car Operating Panel	2013					
Single Panel (Default) Dual Panels	2010					
Remote COP (Discrete in M/R)	2007 NYC (Appendix K) Detroit					
In the CF Filte Touch Serven required?	No Fire Service Massachusetts					
Is the CE Elite Touch Screen required? Yes No	Ontario					
*NOTE: CE should provide CE3868 board	Tiolida					
Notes and Special Instructions	Connection Package (Run Box)					
	SmartConnect Package – Recommended					
	(Pre-Wired Car Top Inspection Box included)					
	with Pendant Light with Switch Guards					
1	with Switch Sadids					

Hydraulic Features, Motor, and Valve Data

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	ulic Fea				s are the same a		-				_		r shipment GOV Rese		plicable (
Car	Speed	Ca	pacity	Battery Lowering	Brown Out Reset	Dua	al Jacks	Viscosity Control	Adams	Life Jacket	Ro	ped	24 VDC	120 VDC	Manuallay Res
1											L				
2						[[
3						[[
4						[[
Low Pressure, Low Oil, and Oil Temp are all included. 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/Mo			lve Volts		of Moto			# of Valves	#	of Coils per Val
1	Loads	VOILS							<u> </u>	□ 2	□ 3	Sing		Triple	(4 Standard)
2									<u> </u>	□ 2	□ 3	Sing		Triple	
3									<u> </u>	□ 2	□ 3	Sing		Triple	
4									<u> </u>	2	□3	□Sing	le Dual	Triple	
	101 . 1 .				A 1 (1)	<u> </u>									
	Weighir				Not	Requir	red (
Load	d Weighe		led By												
	☐ Sma	ırtise		Customer	Overload Anti-Nuisa										
Hydra	ulic Mot	tor Cont	trol Pre	eference											
	Sprecher	+Schuh	(Soft S	Starter)											
	Siemens		•	,	First Availab	ale So	ft Starter								
_	Vye-Delt			ore)	First Availat										
					FIISt Availat	ole Co	niaciors								
<i>F</i>	Across th	e Line (\	via Con	ntactors)											
We will	notify you	u if the pro	eference	chosen cannot	be honored										
Notes	and Spe	ecial Inst	truction	IS:											

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Features and Functions (I)

Special Features	Not Required O	Car Call Security (Specify floors on pag	e 9) Not Required
Remote (2 nd) Fire Key Switch & Lamp Earthquake (Includes Buzzer and Lamp) Car-to-Lobby Key Switch Fan and Light Auto Shutoff Circuit (CT only) Machine Room Cabinet Power Plug Reduced Stroke Buffer (Ontario Only) 2nd Final Limit (MRL Only) Special Modes of Operation	Shunt-Trip Flood Sensor Specify Flood Floor (Label): 'S' Button Machine Room Cabinet Light Enclosure Legs Inching Operation Not Required	Using COP Floor Buttons as Code En Using Dry Contacts from Card Read Input in Car Station (Default) Inputs Override Security When on Independent Serviced Provide a Car Call Security Override	ntry ers and/or Key Switches in Machine Room dent Service or Attendant Input n Machine Room
Independent Service (Default) Hoistway Access Yes (Default) No In-Car Inspection Switch Medical Emergency Service (Provide floor(s)	on page 8)		
Building is a Hospital with keys at every In Car Buzzer, In Car Lamp, and Hallway Lamp at		Hall Call Security	Not Required (
Non-Hospital – Phase 1 key at main lev In Car Buzzer and In Car Lamp are Included Sabbath (Attach Spec) Times	I	Provide Enable/Disable all Hall Calls Provide a Hall Call Security Overide Dry Contacts in Hall Fixtures (Default) Security	Input (Per floor)
Start End		Attendant Service	Not Required
Key Switch Patient Security Specify Patient Security Floors (Labels):		Attendant Service (Is NOT Independent In Car Buzzer In Car Lamp Choose 1: Hall Call Above/Below Lamps (Defa Non-Directional All Hall Call Lamps Requires Discrete Connection from	ault)
			or to our raner or Earlang

Features and Functions (II)

Emergency Power (If Generator Cannot Run All Cars) Not Required	Controller Monitoring System Not Required
E.P. Contact from Generator is Normally Open Normally Closed Power Pre-Transfer Contact from Generator is Normally Open (Default) Normally Closed Not Present Emergency Power Car Selector Switch Single Car Selection (Default) Multiple Car Selection This section applies to the sequencing of elevators when a combination of multiple machine room, groups and simplexes are in the same building. Number of cars the generator can power simultaneously: Answer the below only if this generator powers other cars (not included in this job): Number of Smartrise Cars: * Provide Smartrise Job Numbers: Hydro Safeties (Ontario Only)	Designed and Manufactured by Smartrise Engineering Machine Room Monitoring Local Monitoring (Lobby/Engineering/ Management) Remote Monitoring (Cloud) – Requires Internet Connection Designed and Manufactured by Integrated Display Systems Lift-Net with USB RS-422 Interface (Serial) Lift-Net with Moxa Unit Interface (Ethernet / LAN) Designed and Manufactured by Kings III of America ORM (Interface Only)
Overhead Disconnect Option 1 (non fused) Overhead Disconnect Option 2 (non fused) Broken Tape Switch Oil Compression Safeties Switch Overhead Access Hatch Switch Machine Room Stop Switch Rope Brake Shaft Machine Room Secondary	Monitoring Viewing Devices Not Required All-in-One Touchscreen PCs 21" 24" 27" Tablets 8.7" 11" Laptops 11.6" 15.6"

 Traveler and Hoistway Cable (Purd 	chase from Smartrise)
Draka: ☐ By Draka ☐ By SEES James Monroe: ☐ T	riumph Electric NY 🔲 CED Not Required
Traveler Cable #1 Traveler Cable #2 Traveler Cable #2	Length of Cable(s) Per Car (in feet) Car 1 Car 2 N/A Car 3 Car 4 Car 5 Car 6 No
All Fixtures Must Be 24 VDC / 6 Walls In Car Position Indicator Not Required (
In Car Position Indicator CE Micro Com (Default) Discrete Signals (One line per floor) MWSF: Hands Free Discrete Signals (Binary) VIDATECH (CAN) MAD (CAN) Other: In Car Arrival Lantern Not Required	In Hall Position Indicator CE Micro Com (Default) Discrete Signals (One line per floor) VIDATECH (CAN) Discrete Signals (Binary) # of Floors with Hall Position Indicators MWSF: Hands Free Other:
CE Micro Com (Default) Discrete Signals MAD (CAN) Bulb/Chime wattage (If discrete): Other:	In Hall Arrival Lanterns Not Required CE Micro Com Lanterns (Type: SA130M Req.) All Floors (Smartrise Hall Boards)
In Car Passing Chime Output Output	If Lamps/Gongs are not 24 VDC / 6 Watt (Explain below)
CE Micro Com Interface Only Other:	Lobby Panel Door Open Lamp In Use Lamp On Independent Svc. Lamp Out of Service Lamp Normal Power Lamp Battery Lowering Lamp Car-at-Lobby with Doors Open Lamp Other Requirements

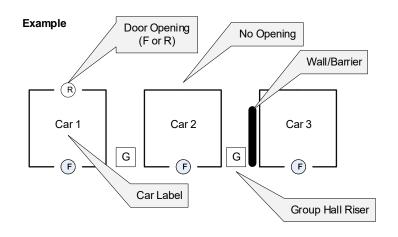
Car Door

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		Usethis	loor for all cars or specify	which cars use it		1 [Lise this do	Use this door for all cars or specify which cars use it				
Front					Rear								
	Door Type	All	Car 1 Car	2 Car 3	Car 4		Door Type	All	Car 1	Car 2 □	Cars	Cal 4	
Ha	II Door Type					Hall Door Type							
	Auto Passenge	r (Default)	Manual										
	_	i (Delault)	Iviairuai			Auto Passenger (Default) Manual							
Ca	r Door Type					Car Door Type							
Auto Passenger (Default) Manual Powered Freight (See + below) (See * below)						Auto Passenger (Default) Manual Powered Freight (See + below) (See * below)							
Select Door Operator						56	Select Door Operator						
	Abell	ATS 0090	Field "EZ"				Abell	ATS 0090	Field "EZ"				
_	Fermator	VVVF5	Linear Door Ope			╽╠	Fermator	VVVF5	Linear Do				
	GAL GAL	MODCTL	(L, G, or X) Motor Arn				GAL	MODCTL MOD	24 VDC Ir (L, G, or X) M			,.	
_	GAL	MOVFR	Input Voltage:		120 VAC		GAL GAL	MOVFR	Input Volta			120 VAC	
_	GAL		-		120 VAC		GAL		Input Volta			120 VAC	
	GAL	MOVFEE	·		120 VAC		GAL	MOVFEE	Input Volta			120 VAC	
	Kone	AMD	Input Voltage: _ Model #: _		2.0		Kone	AMD	Mode	_		2.0	
	Kone	Mac	104 or 105D Inte	rface Board			Kone	Mac	104 or 105	D Interfac	e Boar	d	
	Kone	PMSSC	Input Voltage: [104 or 105D Inte		120 VAC		Kone	PMSSC	Input Volta 104 or 105	-		☐ 120 VAC d	
	Otis	Glide-A	Discrete Only				Otis	Glide-A	Discrete O	nly			
	Otis	AT-400	Glide A w/o Power		120 VAC)		Otis	AT-400		Power Supp h Power Sup			
	SEES	Smooth Operat	r Input Voltage:	220 VAC	110 VAC		SEES	Smooth Operator	Input Volta	ge: 🗌 22	0 VAC	110 VAC	
	TKE	Dover HD-03	Input Voltage:	(Only	M Models)		TKE	Dover HD-03	Input Volta	ge:	(C	Only M Models)	
	TKE	Dover HD-73	Motor Armature Volta	ge:	(Type D/IVO)		TKE	Dover HD-73	Motor Armatu	re Voltage:		(Type D/IVO)	
	TKE	Dover HD-9	Motor Armature Volta	ge:	(DC Motor)		TKE	Dover HD-91	Motor Armatu	re Voltage:		(DC Motor)	
	TKE	HD-85	Motor Armature Volta	ge:			TKE	HD-85	Motor Armatu	re Voltage:			
	TKE	HDLM	Input Voltage: Requires UIT_I/O	AMPS:			TKE	HDLM	Input Voltage Requires UI		_	IPS:	
	TKE	LD-16	Input Voltage:				TKE	LD-16	Input Volta	ge:			
	TKE	ECI	Input Voltage:				TKE	ECI	Input Volta	ge:			
	Wittur	Mini/Supra, SG	/ Input Voltage:	230 VAC	120 VAC		Wittur	Mini/Supra, SGV	Input Volta	ge: 🗌 23	0 VAC	120 VAC	
	EMS		*Input Freight/D	loor Informatio	n ot		EMS		*Input Er	eight/Door	Inform	otion at	
	Courion		*Input Freight/DBottom	oor inionnatio	nı at		Courion		Bottom	sigi il/Dooi	IIIIOIIII	alion al	
	Peelle						Peelle						
	Other		*Input Other Doo	r Information	at Bottom		Other		*Input Othe	er Door In	formati	on at Bottom	
	Door Prote Photo Eye/Ligh Curtain (Defaul	t 🗆	Mechanica I Safety Edge	☐ Door Ho	old Button		Door Prote Photo Eye/Ligil Curtain (Defau	nt $\square_{\mathbf{M}}$	echanica l Safel	y Edge	Doo	or Hold Button	
♦ N	•	*	pe/Information			1 1	•	Door CAM Ty	pe/Inform	ation			
	Mechanical						Mechanical						
	DC	Vol	s	Amps			DC	Volts		А	mps		
	AC (3-Phase)	Vol	s	Amps			AC (3-Phase) Volts		Α	mps =		
	AC (Single Ph	iase) Vol	s	Amps			AC (Single P	hase) Volts		A	mps		
*Fr	*Freight/Other Door Operation Information Notes and Special Instructions:												
N 4	anufa et er e												
IVI	anufacturer Model												
Re	Reference #'s												
		oor Manufact	ırer are Required										

Flo	or Information	Floor Openings	Car Call Security	Hall Call Security	Hosp						
	Floor Floor Label 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)	FR FR FR	FR FR FR	FR FR FR	FR						
	15	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
	14										
	13										
We will default to	12	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
the lobby landing and the landing	11										
above for main and alternate fire	10	- - - - - - - - - -									
floor respectively.	9										
	8										
	7										
	6	-									
	5										
	4										
	3	-									
	2	- - - - - - - - - -									
	1										
1 1	Default Pit -> (Default 4ft)	Pit	Pit	Pit	Pit						
		All cars same as Car 1	All cars same as Car 1	All cars same as Car 1							
	Main Fine // alches Flage	☐ All walk-through	☐ All walk-through	All walk-through							
	——— Main Fire/Lobby Floor ——— Alt Fire Floor	☐ All front Number of floors:	☐ All front Number of floors:	All front							
		Number of floors: Number of fl									
		II HIIACU I /IX picase 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	s								
		Corner Post Rails									
		The solution of thems									
	Hoistway eight (ft)	Walkthrough Only: Top	Overlay wit	th Existing Equipment							
Car 1	3 ()	F R Location of Hoistway Up/	Dn Switch Car#s	Treating Equipment							
Car 2			— Cross	s Registration System							
Car 3		Walkthrough Only: Bottor		oose one of the above, a Smartrise eng							
Car 4		F R Location of Hoistway Up/	Dn Switch Car#s	ails about the existing elevator controller	s.						
☐ All cars sar	me as Car 1		important: F	Provide Physical Layout on Sheet 9							
		_									
Notes and Spec	cial Instructions:										
1											

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Praw a topographical map of elevator(s) location on grid provided. * Accurately label each car by number/letter * Mark openings a 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

