



SENTINEL Lift Control

PC Driven Lift Control.



OutPort C 00001111 01234567 OutPut Card = 0 OutPut Card = 1 OutPut Card = 2 OutPut Card = 3 Input Card = 4 Input Card = 5 Input Card = 6 Input Card = 7	OutPort A 10010000 01234567 UP 0 DN 1 TCA 2 ZCA 3 Re-op 4 5 6 7 Label Bit Activity	Input B 00000000 01234567 Nat 0 Ust 1 Dst 2 C1 3 C2 4 T/N 5 DOC 6 7 Label Active	20:12:08 09/09/2005 Cancel All OutPuts Hide	Speech UP Lift Going Up Speech DOWN Lift Going Down Anun Floor 1 Anun Floor 0 Lower Floor level
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Operator panel

Accepted

Position

Te

Diagnosics

AM Lifts Ltd

RUN



Operator panel

Accepted

Position

Te

Diagnosics

AM Lifts Ltd

RUN

OutPort C 00001111 01234567 OutPut Card = 0 OutPut Card = 1 OutPut Card = 2 OutPut Card = 3 Input Card = 4 Input Card = 5 Input Card = 6 Input Card = 7	OutPort A 10010000 01234567 UP 0 DN 1 TCA 2 ZCA 3 Re-op 4 5 6 7 Label Bit Activity	Input B 00000000 01234567 Nat 0 Ust 1 Dst 2 C1 3 C2 4 T/N 5 DOC 6 7 Label Active	20:16:39 09/09/2005 Cancel All OutPuts Hide	Speech UP Lift Going Up Speech DOWN Lift Going Down Anun Floor 1 Upper Floor Level Anun Floor 0 Lower Floor level
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Start APR2L - Microsoft Visual ... Operator panel Screen Capture 20:16



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SENTINEL LIFT CONTROL SYSTEM



Introducing our NEW range of PC Driven Lift Controllers

The Main Motor Drive Control is by MITSUBISHI PLC unit hard wired using Standard serial safety, lock and contact wiring to the well and car prior to Power Voltage being passed to Contactors for the Main Drive Control & Motor.

All Hall, Car and landing Logic signals are processed by the PC and passed to the PLC Drive Micro to control motor power & direction.

No instructions will be enacted by the PLC Motor unit unless safety switches are compliant to EN81 and safe working interlocking with



All Car and Landing signals are processed and operated by the PC Controller which will display accurate status of Calls on the system and respond with operation of indication, chimes and voice announcement by means of appropriate software. Modems, Printers and Video display is of course available as with any Windows based PC unit.



No one for one wiring between the Lift Motor Control Panel and **SENTINEL**,

linkage is by **USB 2** , 420MB/sec data transfer rate,

SENTINEL

Provides the communication link between Windows and the Lift Controller together with all indicator and contactor operation signals.

SENTINEL

Receives all signals input from the Hall, Car and Motor Room and enacts all instructions from the PC for the Motor drive Panel.

The screenshot shows the SENTINEL software interface with several panels:

- OutPort C:** A status bar showing '00001111' and a list of I/O cards (OutPut Card 0-7, Input Card 0-7).
- OutPort A:** A status bar showing '10010000' and a table with columns 'Label', 'Bit', and 'Activity'. It lists UP, DN, TOA, ZCA, and Re-oP.
- InpPort B:** A status bar showing '00000000' and a table with columns 'Label' and 'Active'. It lists Nst, Urst, Dst, C1, C2, T/N, and DOC.
- System Information:** A central panel displaying the date '20:12:08' and '09/09/2005', along with buttons for 'Cancel All OutPuts' and 'Hide'.
- Control Panel:** A right-hand panel with buttons for 'Speech UP', 'Lift Going Up', 'Speech DOWN', 'Lift Going Down', and floor level indicators for 'Arrive Floor 1', 'Upper Floor Level', 'Arrive Floor 0', and 'Lower Floor level'.

All Car, Well and Motor room wiring is by pre-wired harness with plug & socket connection to Landing equipment, including pre-wired engineers Car Top Controls .

Full Ethernet operation of Group systems by RJ 45 links between PC Lift Controllers.



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LIFT CONTROL

Modem Control and 'NET' facilities are available together with Keyboard & Mouse operation like any other PC.

All units are self checking and various pages are available by Password to any depth for engineers and for record keeping and fault logging/Monitoring.

Emails can be sent from the Lift Controller to Branch offices and the records kept with regard to Spares ordered on the site system and logged to site when available by the remote branch, of course using the Phone line which is used for Auto dialling.

The 'State' (On/Off) or malfunction of limit switches, Doors and Max wait times are all displayed, and available for interrogation by engineers,

All voice annunciation is by synthesised output from the PC as standard. All messages can be changed from 'default' by typing the message required for a particular event within a 'Text Box', exclusive for each event or Floor by Floor.

Each unit is fitted with Internal Hard Drive for local record storage and Cd Rom assistance discs are available for Help files and Data gathering.

All CD rom drives are USB linked to Sentinel by USB and **removable** for remote interpretation and 'Off Site' downloading for file transfer record purposes.



PC CONTROL OF OLDER LIFT SYSTEMS

SENTINEL Can also be added to existing Lift Control panels

for performance monitoring and if required, by interface isolation, Provide full

Modernisation of Call handling without Control panel replacement.

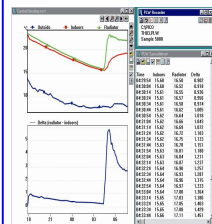
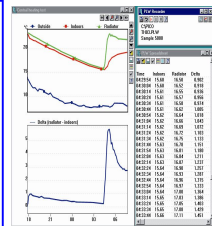
SENTINEL can turn individual Lift systems into Group Control, with full record keeping and communication as previously outlined, by interception of Hall Calls and Indication operation, allowing intelligent distribution back to the existing control panels for Traffic Control and energy saving using modern algorithms.

SENTINEL can upgrade existing Multi-Car Group Control without Controller Replacement

By use of the same techniques and algorithms, indeed with consideration of existing traffic patterns obtained by SENTINEL monitoring and discussion, prior to upgrade. Using dispatcher PC Control operate the existing Hall Call Handling, Parking etc.

SENTINEL can modernise to DDA requirements, existing Lifts with regard to Voice annunciation. Displays, Communication Etc. Again without Control Panel replacement.

We will be please to discuss and advise with regard to your requirements.



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LIFT CONTROL SYSTEM



OutPort C 00001111 01-234567 OutPut Card = 0 OutPut Card = 1 OutPut Card = 2 OutPut Card = 3 Input Card = 4 Input Card = 5 Input Card = 6 Input Card = 7	OutPort A 10010000 01-234567 <table border="1"> <tr><td>UP</td><td>0</td><td>UP</td></tr> <tr><td>DN</td><td>1</td><td></td></tr> <tr><td>1CA</td><td>2</td><td></td></tr> <tr><td>2CA</td><td>3</td><td>2CA</td></tr> <tr><td>Re-oP</td><td>4</td><td></td></tr> <tr><td></td><td>5</td><td></td></tr> <tr><td></td><td>6</td><td></td></tr> <tr><td></td><td>7</td><td></td></tr> </table> Label Bit Activity	UP	0	UP	DN	1		1CA	2		2CA	3	2CA	Re-oP	4			5			6			7		InpPort B 00000000 01-234567 <table border="1"> <tr><td>Nxt Urst</td><td>0</td><td>Nxt Urst</td></tr> <tr><td>Drst</td><td>1</td><td></td></tr> <tr><td>C1</td><td>2</td><td>C1</td></tr> <tr><td>C2</td><td>3</td><td>C2</td></tr> <tr><td>T/N</td><td>4</td><td>T/N</td></tr> <tr><td>DOC</td><td>5</td><td>DOC</td></tr> <tr><td></td><td>6</td><td></td></tr> <tr><td></td><td>7</td><td></td></tr> </table> Label Active	Nxt Urst	0	Nxt Urst	Drst	1		C1	2	C1	C2	3	C2	T/N	4	T/N	DOC	5	DOC		6			7		Speed Lift Going Speech Lift Going Down Anun Floor 1 Upper Floor Level Anun Floor 0 Lower Floor level
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T/N	4	T/N																																																	
DOC	5	DOC																																																	
	6																																																		
	7																																																		

20:12:08
09/09/2005
Cancel All OutPuts
Hide

Operator panel

Position

Accepted

2c

1c

APB2L

Please Enter Access Number

OK

Cancel

Diagnostics

Operator panel

Position

Accepted

2c

1c

Diagnostics

Speech UP

Lift Going Up

Speech DOWN

Lift Going Down

Anun Floor 1

Upper Floor Level

Anun Floor 0

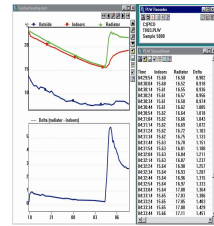
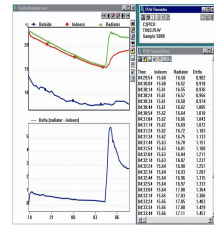
Lower Floor level

23:07:02

09/09/2005

Cancel All OutPuts

Hide



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