



+0.32

ERD2



Addressable System

Programming Manual

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A. Instruction of System Structure

1. The programming software can be edited, Export/Import on Excel of PC.
The edited file can be downloaded from PC to panel or be uploaded from panel to PC through USB COM Port.

2. Function Structure

Administrator (Horing Lih)



Cloud Server



View and manage accounts

ERD2 Addressable Fire Alarm Control Panel



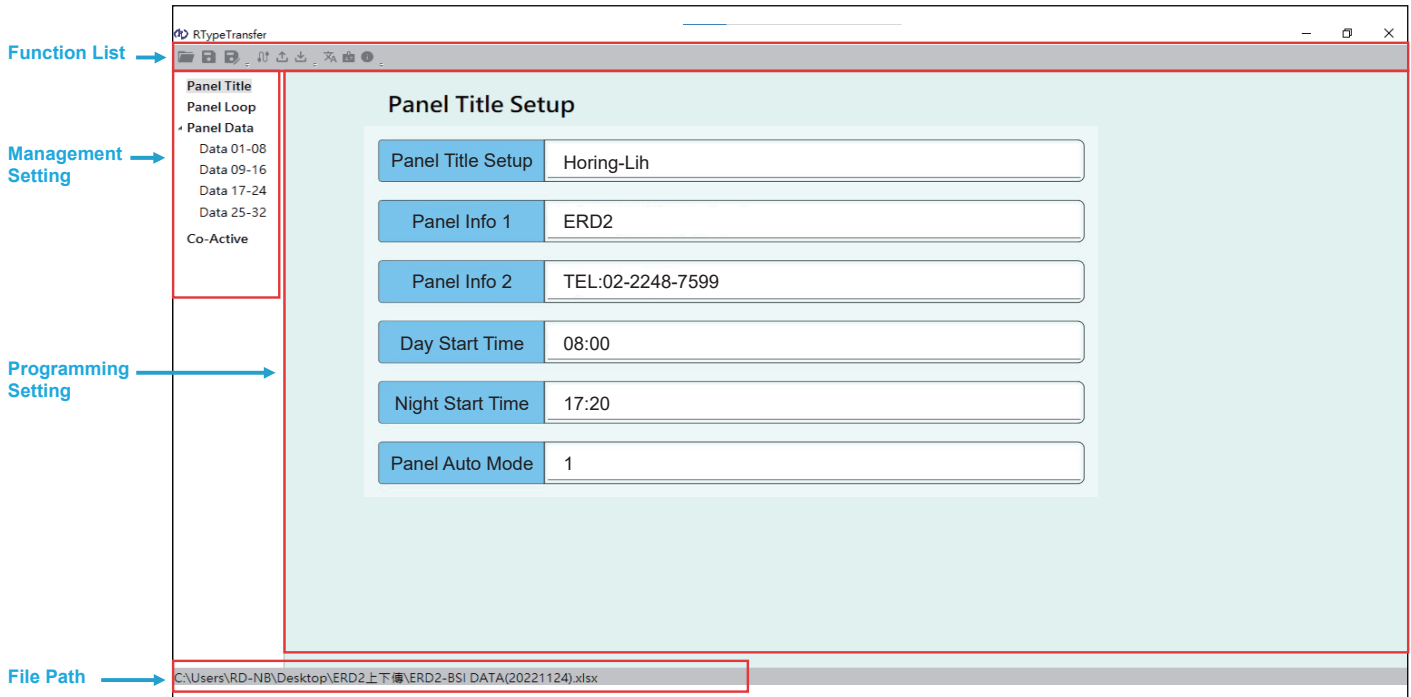
PC can export/import, edit or save as the file

sign in
Authorization

Download
(PC download to Panel)

Upload
(Panel upload to PC)

B. Instruction of Addressable Programming System for PC









1. Software Operation Interface

- Function list include: Open / Save / Save as / Connect Setting / Download / Upload / Language change / License / Information.
- Management Setting: Open the pages to edit or set up the data accordingly.
- Programming Setting: Edit panel information and data programming.
- Status Review: Present the status for software information include upload, download, function operating or error information.

2. Function List

- : Open the file (Excel) which can be downloaded and edited.
- : Save the file to edit or download.
- : Download the file from PC to panel through USB Com port.
- : Uploaded the file from Panel to PC through USB Com port.

- e. : Connect Setting for upload or download, the software will detect USB Com port and baud rate automatically.
- f. : Save as the file to Excel version after upload or edit.
- g. A: A: Change the language (English / Chinese).
- h. : Review software license information.
- i. : Review the software version and supplier information.
- J. : Software will log out automatically after 1 day and the user must log in again.

3. Management Setting

- a. Panel Information: Click twice to set up supplier information.
- b. Panel Loop: Click twice to set up panel loop.
- c. Panel Programming: Click twice to edit panel data and programming.
- d. Co-Active: Click twice to edit Co-Active of programming.

4. Programming Setting

- a. Panel Title: edit the panel title, panel info 1 and panel info 2.
(The features of Day Start time, Night Start time, Panel Auto mode are for analog system. ERD2 is a digital system, please don't change the initial setting)

Day Start Time	08:00
Night Start Time	17:20
Panel Auto Mode	1

- b. Panel Loop: The panel loop number will be sorted automatically after selected panel loop. It can be set as single use or multiple function for networking.
- c. Panel Data: The panel data presents as a form, the column of "Address" can't be modified. Others columns such as Type, Location Name, Module, Relay Output 1-4, Co-active 1-2 are editable.
- d. Extra Settings are for analog system.
ERD2 is a digital system, please keep blank on extra settings.

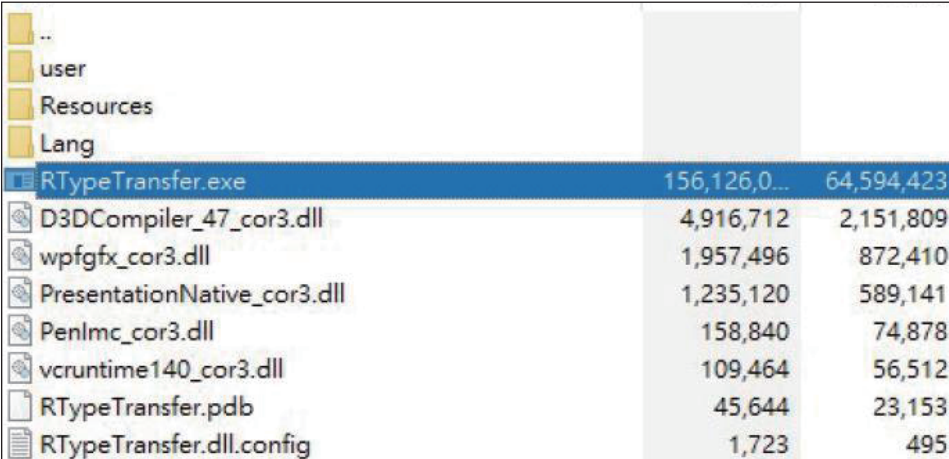
Day Pre-Alarm (Smoke%)	Night Pre-Alarm (Smoke%)	Day Pre-Alarm (Smoke%)	Night Pre-Alarm (Smoke%)	Day Pre-Alarm (Temp.°C)	Night Pre-Alarm (Temp.°C)	Day Pre-Alarm (Temp.°C)	Night Pre-Alarm (Temp.°C)
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- e. Co-active: Select the Loop No. and Address No. The maximum number of co-active can up to 4000 points, each event can activate 120 points include Delay point.

5. Programming Instructions

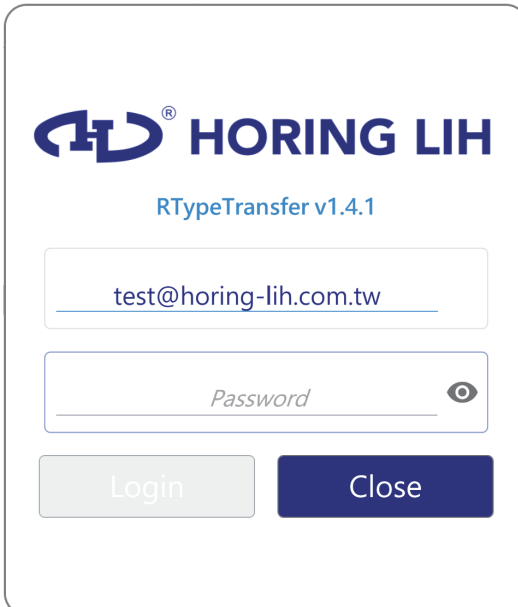
a. Initial Use


- Press  RTypeTransfer to open the programming software.



..		
user		
Resources		
Lang		
RTypeTransfer.exe	156,126,0...	64,594,423
D3DCompiler_47_cor3.dll	4,916,712	2,151,809
wpfgfx_cor3.dll	1,957,496	872,410
PresentationNative_cor3.dll	1,235,120	589,141
PenImc_cor3.dll	158,840	74,878
vcruntime140_cor3.dll	109,464	56,512
RTypeTransfer.pdb	45,644	23,153
RTypeTransfer.dll.config	1,723	495

- The PC must connect to internet when the initial use, and the account and password must be applied before login to the software, as shown below.

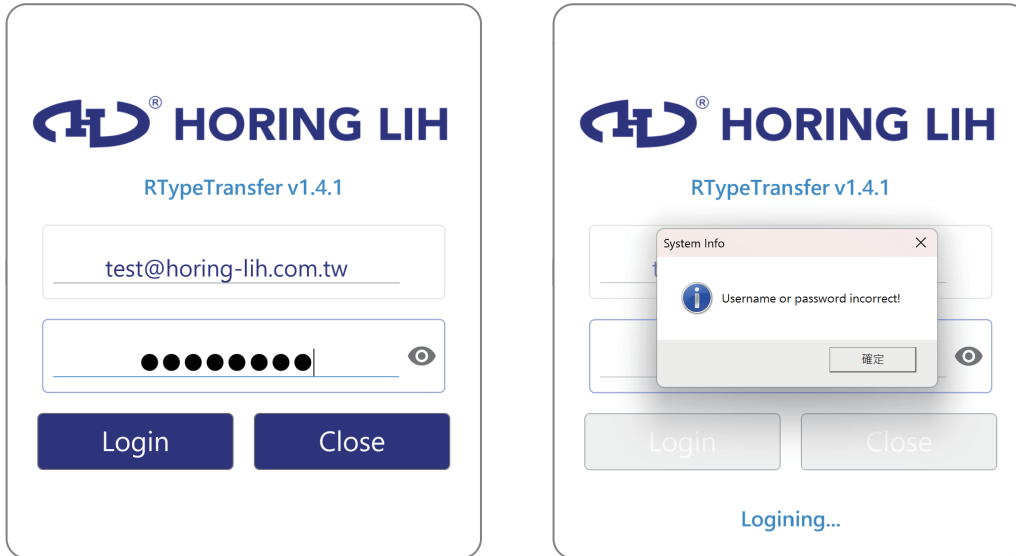


 **HORING LIH**

RTypeTransfer v1.4.1



Login Close

- Provide personal email address as account and password to Horing Lih. Horing Lih will activate the account.
- Enter your account and password to login the programming software.



- If the account has not been activated or the account has been closed, a warning message will pop up, as shown on the right above.

b. PC download to Panel

- Click  Open and choose the programming file (Excel.xlsx)
- Click  Download, choose COM port and Baud rate (default:115,200k)

The screenshot shows the RTypeTransfer software interface. A 'COM Port Setting' dialog box is centered over the main data table. The dialog box contains the following fields and buttons:

- COM Port:** A dropdown menu currently showing 'COM3'.
- BaudRate:** A dropdown menu currently showing '115200'.
- Buttons:** 'Download' and 'Cancel' buttons are located at the bottom of the dialog box.

The background data table is titled 'Co-Active Data' and has the following structure:

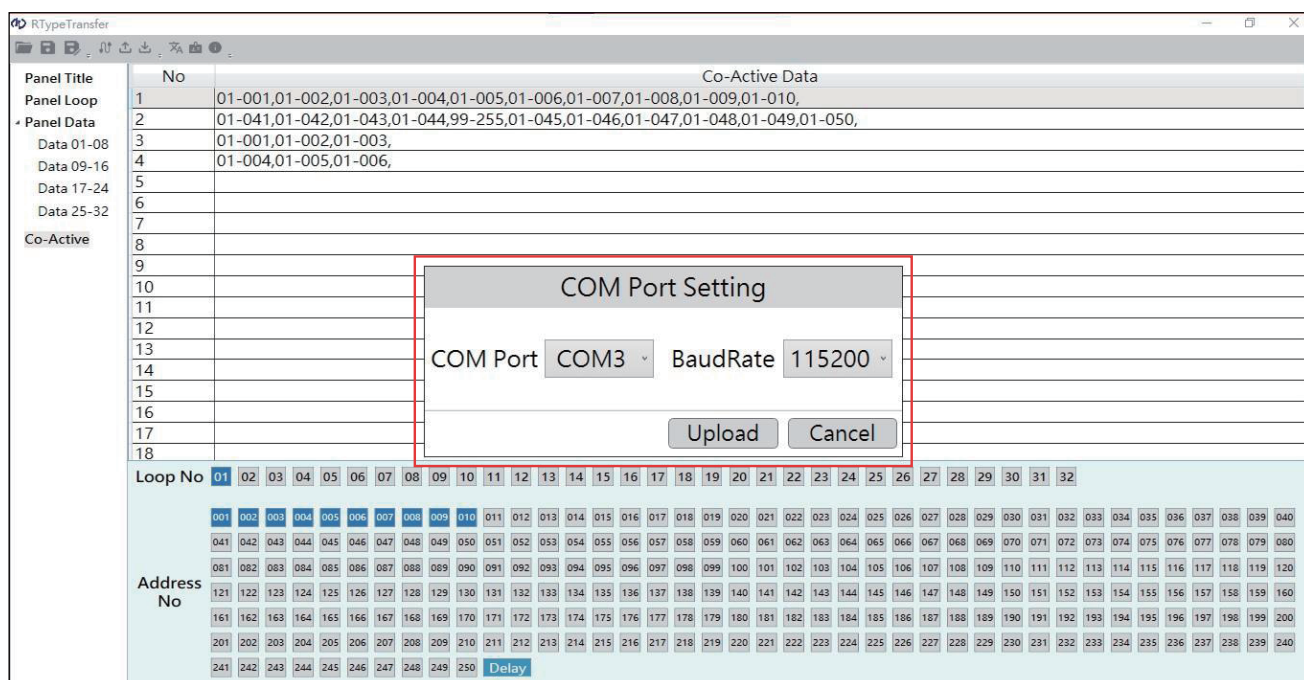
Panel Title	No	Co-Active Data
Panel Loop	1	01-001,01-002,01-003,01-004,01-005,01-006,01-007,01-008,01-009,01-010,
Panel Data	2	01-041,01-042,01-043,01-044,99-255,01-045,01-046,01-047,01-048,01-049,01-050,
Data 01-08	3	01-001,01-002,01-003,
Data 09-16	4	01-004,01-005,01-006,
Data 17-24	5	
Data 25-32	6	
Co-Active	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	


Below the table, there is a grid of 'Loop No' (01-32) and 'Address No' (001-240). A 'Delay' button is visible at the bottom of the grid.

- Enter “Setting” on panel, input the Access Code, choose “Download File”, choose Download and Wired.
- Click “Download” on PC, PC and panel will show the download progress.
- After download progress is 100%, the panel will automatically reset, it means Download completed.
- Click “Confirm” on PC to finish download operation.

c. Panel upload to PC

- Click  Upload, choose COM port and Baud rate (default :115,200k)



- Enter “Setting” on Panel, input the Access Code, choose Upload File, Choose Upload and Wired.
- Click “Upload” on PC, PC and panel will show the upload progress.
- After upload progress is 100%, it means Upload completed.
- Click “Confirm” on PC to finish Upload operation, all information will be displayed on PC.
- Click  "Save As" then it can be exported to Excel file.

d. Panel Title

Panel Title	Panel Title Setup
Panel Loop	
Panel Data	
Data 01-08	
Data 09-16	
Data 17-24	
Data 25-32	
Co-Active	
	Panel Title Setup <input type="text"/>
	Panel Info 1 <input type="text"/>
	Panel Info 2 <input type="text"/>
	Day Start Time <input type="text"/>
	Night Start Time <input type="text"/>
	Panel Auto Mode <input type="text"/>

- Open the programming file
- From Setting Management, click Panel Title to enter Panel information.
- Enter the information in each column. In each column, there is a maximum of 26 letters in English and a maximum of 13 characters in Chinese. When exceeding the letter limit, the border will be displayed in red, and the exceeded letters will be automatically removed.
- Day Start Time / Night Start Time, set the time at which the analog detector switches between day and night for their sensitivity setting.
- Panel Auto Mode, 0 means off, 1 means on.

e. Panel Loop (Networking)

■ Example A: When single panel use

Panel Title	Panel No	Panel Status	Loop Amount	Loop No 1	Loop No 2	Loop No 3	Loop No 4	Loop No 5	Loop No 6	Loop No 7	Loop No 8
Panel Loop	1	<input checked="" type="checkbox"/>	2	1	2	0	0	0	0	0	0
Panel Data	2	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
Data 01-08	3	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
Data 09-16	4	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
Data 17-24	5	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
Data 25-32	6	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
Co-Active	7	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	8	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	9	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	10	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	11	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	12	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	13	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	14	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	15	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	16	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	17	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	18	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	19	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	20	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	21	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	22	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	23	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	24	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	25	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	26	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	27	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0

■ Example B: When networking wiring

Panel Title	Panel No	Panel Status	Loop Amount	Loop No 1	Loop No 2	Loop No 3	Loop No 4	Loop No 5	Loop No 6	Loop No 7	Loop No 8
Panel Loop	1	<input checked="" type="checkbox"/>	2	1	2	0	0	0	0	0	0
Panel Data	2	<input checked="" type="checkbox"/>	1	3	0	0	0	0	0	0	0
Data 01-08	3	<input checked="" type="checkbox"/>	2	4	5	0	0	0	0	0	0
Data 09-16	4	<input checked="" type="checkbox"/>	1	6	0	0	0	0	0	0	0
Data 17-24	5	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
Data 25-32	6	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
Co-Active	7	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	8	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	9	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	10	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	11	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	12	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	13	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	14	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	15	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	16	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	17	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	18	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	19	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	20	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	21	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	22	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	23	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	24	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	25	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	26	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0
	27	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0

- Open the programming file.
- From Setting Management, click Panel Loop and choose Panel status.
 - When single panel use: A ■ When networking wiring: B
- If the Panel status has been enabled, select "Loop Amount" in list to do networking. Loop NO_1~8 will be automatically sorted, and no additional settings. Loop NO._1~8 column is unable to edit. The maximum loop for Networking is 32 loops.
- If the Panel Status has not been enabled, that loop will be disabled, and the loop numbers will be automatically reordered.

f. Panel Data

Panel Title	Type	Address	Location Name	Module	Relay Out 1	Relay Out 2	Relay Out 3	Relay Out 4	Co-Active 1	Co-Active 2	Day Active (Smoke%)	Night Active (Smoke%)	Day Alarm (Smoke%)	Night Alarm (Smoke%)	Day Alarm (Temp. °C)	Night Alarm (Temp. °C)	Day Alarm (Temp. °C)	Night Alarm (Temp. °C)
Panel Loop	10	01-001	EK20		0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	10	01-002	EK40		0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	10	01-003	ECM2		0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	10	01-004	ECM3		0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
Data 09-16	10	01-005	EDS22		0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	10	01-006	EDC22		0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
Data 17-24	10	01-007	EDP22		0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
Data 25-32	00	01-008			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-009			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
Co-Active	00	01-010			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-011			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-012			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-013			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-014			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-015			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-016			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-017			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-018			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-019			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-020			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-021			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-022			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-023			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-024			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-025			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-026			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-027			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-028			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-029			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-030			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-031			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-032			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-033			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-034			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-035			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-036			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-037			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-038			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-039			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85
	00	01-040			0	0	0	0	0	0	15.0	15.0	15.0	15.0	85	85	85	85

- Open the programming file.
- From Setting Management, click Panel Data to program addressable points in Loop 01-08, Loop 09-16, Loop 17-24, and Loop 25-32.
- In the programming page, "Address" is fixed not editable, the "Location name" can be edited up to 24 characters in English and 12 characters in Chinese.
- Except of Location Name, only numbers can be entered in other columns. Do not enter text to avoid downloading errors or abnormal panel problems.
- Day Pre-Alarm (Smoke%), Night Pre-Alarm (Smoke%), Day Alarm (Smoke%), Night Alarm (Smoke%), the value can be set between 2.4% to 15.0%, with an adjustment of gap 0.1%. If the value is lower than 2.4% or higher than 15.0%, a warning message will pop up, and the value will be displayed in red
- Day Pre-Alarm (Temp. °C), Night Pre-Alarm (Temp. °C), Day Alarm (Temp. °C), Night Alarm (Temp. °C), the value can be set between 40°C to 85°C, with an adjustment of gap 1°C. If the value is lower than 40°C or higher than 85°C, a warning message will pop up, and the value will be displayed in red

g. Co-Active

Panel Title	No	Co-Active Data
Panel Loop	1	01-001,01-002,01-003,01-004,01-005,01-006,01-007,01-008,01-009,01-010,
Panel Data	2	01-041,01-042,01-043,01-044,99-255,01-045,01-046,01-047,01-048,01-049,01-050,
Data 01-08	3	01-001,01-002,01-003,
Data 09-16	4	01-004,01-005,01-006,
Data 17-24	5	
Data 25-32	6	
Co-Active	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	

Loop No	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32										
Address No	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	026	027	028	029	030	031	032	033	034	035	036	037	038	039	040		
	041	042	043	044	045	046	047	048	049	050	051	052	053	054	055	056	057	058	059	060	061	062	063	064	065	066	067	068	069	070	071	072	073	074	075	076	077	078	079	080		
	081	082	083	084	085	086	087	088	089	090	091	092	093	094	095	096	097	098	099	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120		
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160		
	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200		
	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240		
	241	242	243	244	245	246	247	248	249	250	Delay																															

- Open the programming file
- From Setting Management, click Co-active for editing.
- Note: one Co-Active link can activate 120 points included output delay code (99-255)
- Each loop No. and address No. at below window will display according to the current data.
- Loop No. button color in gray means Not selected.
Loop No. button color in light blue means Selected.
Loop No. button color in dark blue means Editing.
- Address No. button color in light gray means Not selected, and in dark blue means Selected.
- To add Co-active data, select "Loop No." first, and then click the "Address No.". This addressable point will be added in Co-active.
- To delete Co-active data, select "Loop No." first, and then click the "Address No.". This addressable point will be deleted in Co-active.
- Output Delay: Click "Output Delay" to delay the addressable points and add code 99-255. For example: 01-001,99-255,01-002, means loop 1 addressable point 2 is delayed.
- The data in Co-active data can also be manually entered or deleted, but it is recommended to set it by clicking buttons to avoid abnormal download caused by incorrect input. Note that if manually entered or deleted, the "," after the address must exist or be deleted together. ie. "01-001," as a set.



ERD2

Addressable System
Programming Manual