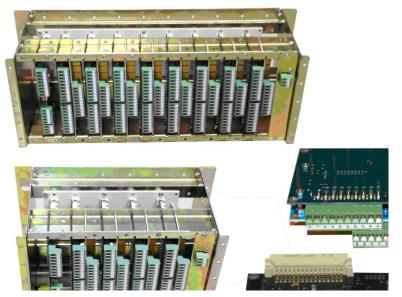
PROGRAMMABLE ALARM ANNUNCIATOR



Application

- Extension of the number of inputs and outputs of the Alarm System.
- Extension of the number of signal duplicating relays for SCADA, RTU, or DCS system
- Central process connection for MODBUS system.

Communication Interface

• MODBUS RTU

Description

The MEEKA-AN Alarm System, developed from the fieldproven. MEEKA-AN range of alarm annunciators provides the user with the best combination of flexibility and reliability. The MEEKA-AN is designed as a complete alarm system with integral redundant supplies, audible, relays, and pushbuttons for the most cost-effective solution for monitoring critical process alarms.

The programmable alarm sequence, signal duplicating relays, dual horn relays, lamp, and power supply of MEEKA-AN are an ideal choice for all industrial sectors.

FEATURES & BENEFITS

Various Sizes

Various sizes are available from 16 to 64 alarm points.

Dimensions are as follows:

Large size (40 to 64 alarms)

- Height: 150mm
- Wide: 435mm
- Deep: 140 mm

Small size (16 to 32 alarms)

- Height: 150 mm
- Wide: 280 mm
- Deep: 140 mm

Fully Field Programmable

The flexible design allows the selection of a range of features and a choice of operational alarm sequences, which are compliant with ISA S18.1 1979. Alarms can be set to operate from either a normally open or a normally closed volt-free signal contact.

Connections

All connections are made on the rear of the unit using two-part quick disconnect rising clamp terminals accepting up to 12 AWG (2.5mm2) wire.

Inputs

All inputs are optically coupled and comply with the stringent requirements of the European Electromagnetic Compatibility and Low Voltage directives. The standard input voltage is 24VDC.

Common Outputs

As standard, each unit is fitted with three common relays: Critical Audible Relay, Non-Critical Audible Relay, and Common Alarm Relay. The common alarm relay is equipped with a reflash feature to indicate the occurrence of a new alarm within the unit

Auxiliary Relay

Each channel is equipped with an integral relay facility, typically used to initiate inputs to third-party devices such as RTU, SCADA, or DCS systems.

Integral Redundant Power Supplies

To maintain the highest level of safety-critical reliability in models applications, all are equipped with integrated dual power supplies. The standard unit is equipped with one fully isolated universal input supply, each capable of accepting either 110-250VAC/VDC. As an option, the secondary supply can be suitable for 24VDC if specified at the time of order.

Configure alarm way (Horn, Bell)

All alarm ways are configured by pushbutton controls Test, Accept, Reset, and input Configure (input Configure connect to customer terminal or Configure pushbutton)

To enter configure setup alarm ways, press and hold the pushbutton ACCEPT first and active input CONFIG together for 5 seconds (see connection diagram)

The lamp panel will light steady and the lamp first is light flashing. Parameter number 01 is selected.

Press the pushbutton ACCEPT to configure the alarm way (Horn, Bell)

- + Default is Horn
- + One pressing is Bell
- + Two pressings are Horn and Bell
- + Three pressings is no Horn, no Bell

+ Four pressings are returned, Horn

Press the pushbutton TEST as function DOWN and RESET as function UP for change other alarm ways are needed to configure.

To exit setup with store configure, press and hold the pushbutton ACCEPT first and active input CONFIG together for 3 seconds.

To exit setup without store configure, active only input CONFIG.

Auto Accept Timer

In unmanned applications it is common to have an automatic accept facility after a pre-set time, typically one minute; this is a standard feature on the MEEKA-AN.

Horn and Bell output are fitted as standard and each pair of alarm ways can be selected to operate either a critical or non-critical integrally mounted horn output. In substation applications, it is common for one extension relay to be used to operate the externally mounted station Horn and the second extension relay to be used to operate the externally mounted Bell. Input response station standard, the input response is set to 2ms for optimum performance, however, this delay is user programmable and can be reduced or extended to suit the exact site conditions.

Pushbutton Controls

Integral pushbuttons are provided for Test, Accept, Reset, and Configure (if any) which control the operation of the standard alarms within the instrument. The two power failure alarms have their pushbutton control lines wired to Customer terminals for connection to remote Functional Test, Accept and Reset

Order code

"MEEKA-AN-Vnn-ppp-xx-c"

MEEKA-AN:

programmable alarm annunciator

- Vnn: version of MEEKA-AN
- ppp: power supply
 - 024: 24Vdc
 - 110: 110Vdc
 - 220: 220Vdc

- xx: number of alarm ways

- 08 16 24 32
 - 40 48 56 64

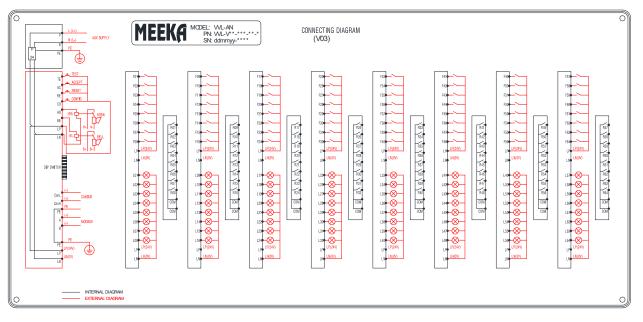
- c: communication interfaces

- N: None
- R: Repeated relay
- M: Modbus RTU

Example:

MEEKA-AN-V02-220-32-R

CONNECTIONS DIAGRAM



DIMENSION PLC

Large size Small size Ð contraction of the second TABLES ········ г [[o

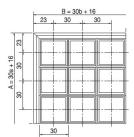
DISPLAY WINDOWS – TYPE 1

DESIGN



- Combination of display windows 30x30mm, LEDs inside.
- 4x4 / 4x6 / 4x8 (rows x columns) for 16/24/32 display windows.
- Number of rows and columns can be designed by the user.
- Installed on the front panel.
- Text area display 26x26mm
- Display content could be easily changed.

TECHNICAL DATA



Manufacturer	: HanYoung – Korea
Туре	: CD-SA
LED	: 24Vdc – 0.68W – 20mA
Color	: White – Red - Orange
Text area display	: 26x26/window
Rows x Columns	: 04x04 / 04x06 / 04x08 / 04x10 / 04x12
	: 05x08
	: 06x06 / 06x08
Panel cut out (H/W) : 30xRows+5 / 30xColumns+5

ORDER CODE

Display Windows: xx-DW-SA-rrcc-y

- xx Number of display window: 16/24/32/36/40/48
- rr Number of Rows
- cc Number of Columns
- y Color: W-White / R-Red / O-Orange

Example: 32-DW-SA-0408-W

DISPLAY WINDOWS – TYPE 2

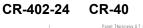
DESIGN

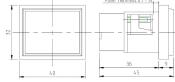


- Combination of display windows 40x32mm, bulb lamps inside.
- 4x4 / 4x6 / 4x8 (rows x columns) for 16/24/32 display windows.
- Number of row and column can be designed by user.
- Installed on front panel.
- Text area display 33x25mm
- Display content could be easily changed.

TECHNICAL DATA







Manufacturer	: HanYoung – Korea			
Туре	: CR-402-24			
Lamp	: 24Vdc – 1W			
Text area display	: 33x25/window			
Cross connector	: CR-40			
Rows / Columns	: 04x04 / 04x06 / 04x08 / 04x10 / 04x12			
	: 05x08			
	: 06x04 / 06x06 / 06x08			
Panel cut out (H/W): 32xRows-7 / 40xColumns-7				

ORDER CODE

Display Windows: xx-DW-CR-rrcc

- xx Number of display window: 16/24/32/36/40/48
- rr Number of rows
- cc: Number of columns

Example: 32-DW-CR-0408

INSTALLATION



PLCs are installed inside the panel



Display Windows (type CD-SA) are installed in front of the panel

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		I/O SId	ot #1	lvo s	lot #2	1/O SI	ot #3	I/O SI	ot #4	lvo s	lot #5	I/O SIG	ot #6	I/O SId	ot #7	vo s	lot #8	3.44	
	TEST ACCEPT RESET	F01 F02 F03		F09 F10 F11		F17 F18 F19		F25 F26 F27		F33 F34 F35		F41 F42 F43		F49 F50 F51		F57 F58 F59		P N PE	
	CONFIG HORN BELL LP	F04 F05 F06		F12 F13 F14 F15		F20 F21 F22		F28 F29 F30		F36 F37 F38		F44 F45 F46		F52 F53 F54		F60 F61 F62 F63			
	LN DS01	F07 F08 LP	R01 R02	F16 LP	R09 R10	F23 F24 LP	R17 R18	F31 F32 LP	R25 R26	F39 F40 LP	R33 R34	F47 F48 LP	R41 R42	F55 F56 LP	R49 R50	F64 LP	R57 R58		
	DS02 DS03 DS04 DS05	LN	R03 R04 R05 R06		R11 R12 R13 R14	LN	R19 R20 R21 R22	LN	R27 R28 R29 R30	LN	R35 R36 R37 R38	LN	R43 R44 R45 R46	LN	R51 R52 R53 R54	LN	R59 R60 R61 R62		
	DS06 DS07 DS08	L01 L02	R07 R08 COM	L09 L10	R15 R16 COM	L17 L18	R23 R24 COM	L25 L26	R31 R32 COM	L33 L34	R39 R40 COM	L41 L42	R47 R48 COM	L49 L50	R55 R56 COM	L57 L58	R63 R64 COM		
	CAN(+) CAN(-) PE MOD(+)	L03 L04 L05 L06	СОМ	L12 L13 L14	COM	L19 L20 L21 L22 L23	COM	L27 L28 L29 L30	СОМ	L35 L36 L37 L38 L39	СОМ	L43 L44 L45 L46 L47	СОМ	L51 L52 L53 L54 L55	СОМ	L59 L60 L61 L62	СОМ		
	MOD(-) PE LP(24V) LN(0V)	L07 L08 LP LN		L15 L16 LP LN		L23 L24 LP LN		L31 L32 LP LN		L39 L40 LP LN		L47 L48 LP LN		L55 L56 LP LN		L63 L64 LP LN			

CONNECTING

Push buttons

TEST ACCEPT	: Test – NO contact : Accept – NO contact	F01 1 LP (2			
RESET CONFIG LP(24Vdc)	: Reset – NO contact : Configure (if any) – NO contact : common point of push buttons	Outpu L01 t			
· · · · ·	Test-Accept- Reset-Configure	LN(0			
Alarm devices					
HORN BELL	: Horn (24Vdc) – for Trip signals : Bell (24Vdc) – for Alarm signals	R01			
	: Horn-Bell common point	CON			
Communicati	ion Interface	Power			
PE MOD (+) / (-) :Canbus protocol interface :Earthing ·) :Modbus protocol interface	P-N PE			
Output 24Vdo					

PE	: Earthing
LP-LN	: 24Vdc ັ

Input signals

1	
F01 to F64 LP (24Vdc)	: Input signals – NO contacts : common point of input signals

Output signals

L01 to L64	: Display windows		
LN(0Vdc)	: common point o	of display v	windows
Repeat signal	S		
R01 to R64	: repeated NO contacts	input	signals
COM	: common point N	IO contac	ts
ower Supply	r		

P-N	: 110Vdc or 220Vdc
PE	: Earthing