IRIS Fire Alarm Panel - Accumulator Capacity Calculation

Start

1. Please, enter the number of the loops 1 - 4: 1

ATTENTION: The calculator is designed for calculating the battery capacity for fire alarm panels IRIS with TTE loops only!

IMPORTANT NOTE! The calculated value for the battery capacity is a minimum. This means, that for the current fire installation the constructor must use a battery with close in value but higher capacity – it is strongly recommended the calculated battery capacity to be increased with 25%, so to guarantee a reserve charge with reducing the battery capacity as a result of aging. For example, if the calculated battery capacity is 30.3Ah, then it is recommended to use a battery with capacity of 38Ah.

2. Please, enter the number of devices for every loop:

Notes:
- For 1 Loop panel, enter values in "Loop 1" column only.
- For 2 Loops panel, enter values in columns "Loop 1" and "Loop 2".
- For 3 Loops panel, enter values in columns "Loop 1", "Loop 2" and "Loop 3".
- The accessories MISO, FRI and FRL have no addresses in the system.
- The automatic detectors mounted to bases BSOU (IS) and BSST (IS) are assigned at separate addresses in the control panel. You must add their number to the total number of the detectors from the same type in the respective loop number.

	Standby Mode				FIRE Mode			
Detectors	Loop 1	Loop 2	Loop 3	Loop 4	Loop 1	Loop 2	Loop 3	Loop 4
T110	3	0	0	0	1	0	0	0
T110 IS	0	0	0	0		0	0	0
S130	30	0	0	0	5	0	0	0
S130 IS	0	0	0	0		0	0	0
M140	0	0	0	0		0	0	0
M140 IS	0	0	0	0		0	0	0
MCP150	3	0	0	0		0	0	0
MC-D	0	0	0	0		0	0	0
Modules	Loop 1	Loop 2	Loop 3	Loop 4	Loop 1	Loop 2	Loop 3	Loop 4
MIO-22 (2 IN/2 OUT)	0	0	0	0	0	0	0	0
MIO-04 (4 outputs)	4	0	0	0	4	0	0	0
MIO-40 (4 inputs)	0	0	0	0	0	0	0	0
MC-Z (loop power)	0	0	0	0		0	0	0
MC-Z (extern. power)	0	0	0	0		0	0	0
MOUT	0	0	0	0	0	0	0	0
MOUT-240	2	0	0	0	2	0	0	0
MINP (mini input)	0	0	0	0	0	0	0	0
Accessories	Loop 1	Loop 2	Loop 3	Loop 4	Loop 1	Loop 2	Loop 3	Loop 4
FRI (to a detector)	0	0	0	0	0	0	0	0
FRL (to MC-D)	0	0	0	0	0	0	0	0
MISO (isolator)	0	0	0	0				

Tone Type 27
27 is the main tone type.

		Standby Mode				FIRE Mode			
Sounders	**Tone type**	Loop 1	Loop 2	Loop 3	Loop 4	Loop 1	Loop 2	Loop 3	Loop 4
WS (IS)	HIGH	6	0	0	0	6	0	0	0
	LOW	0	0	0	0	0	0	0	0
WSOU (IS)	HIGH	1	0	0	0	1	0	0	0
	LOW	0	0	0	0	0	0	0	0
WSST (IS)	HIGH	0	0	0	0	0	0	0	0
	LOW	0	0	0	0	0	0	0	0
BSOU (IS)	HIGH	0	0	0	0	0	0	0	0
	LOW	0	0	0	0	0	0	0	0
BSST (IS)	HIGH	0	0	0	0	0	0	0	0
	LOW	0	0	0	0	0	0	0	0

3. Please, enter values for:

Zones in FIRE Mode (1 - 96):	1
The required time for operation in Standby mode without mains power supply [hours]:	72
The required time for operation in Fire mode without mains power supply [hours]:	0.5

4. Please, enter the panel parameters:

Outputs	Standby	FIRE Mode
FIRE R (0-0.3 A)		0
FIRE P (0-0.3 A)		0
SND 1/2 (0-0.3 A)		0
AUX +24V (0-0.3A)	0	0
Relays (0 - 4)	0	0

Calculate

Minimal accumulator capacity, [Ah]: 26.3 X

Recomended units of IRIS PS72 External Power Supply: (Configuration of 2x12V/18Ah batteries) 1

Total number of batteries 12V/18Ah: (IRIS + IRIS PS72) 2

Maximum current in Standby mode, [A]:

Loop 1	Loop 2	Loop 3	Loop 4	Total consumption, [A]:
0.01136	0	0	0	0.1283

Maximum current in FIRE mode, [A]:

Loop 1	Loop 2	Loop 3	Loop 4	Total consumption, [A]:
NaN	0	0	0	0.5991

Total number of addressed devices:

Loop 1:	Loop 2:	Loop 3:	Loop 4:
49	0	0	0

WARNINGS SOUNDERS

ERROR MESSAGES