**On the subject of PIN codes**

Four numbers to be entered on a keypad.

The PIN code consists of four digits. Each digit needs to be calculated using these formulas.  
Press the enter button after entering all digits. Holding the enter button down will clear all digits.

If both x and y are even:

Otherwise, if the battery level is above 2 and y is odd:

Otherwise, if the digit sum of the serial number is greater than 12:

Otherwise:

Variable reference:  
: value of the binary display below the keypad  
: determined by the table below  
: nth digit of serial number (from left to right)  
: digit sum of serial number  
: battery level (0-3)  
: state of indicator (On: 1, Off: 0)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Digit | | | |
|  | y | 1 | 2 | 3 | 4 |
| Value of x | 2 | 91 | 59 | 16 | 3 |
| 6 | 63 | 7 | 88 | 39 |
| 4 | 72 | 51 | 73 | 36 |
| 0 | 71 | 54 | 58 | 25 |
| 7 | 30 | 94 | 14 | 93 |
| 5 | 87 | 35 | 90 | 45 |
| 1 | 56 | 60 | 17 | 67 |
| 3 | 33 | 85 | 64 | 38 |