

| MODE      | Mode settings |          |          |          |        |         |
|-----------|---------------|----------|----------|----------|--------|---------|
| g-shift   |               |          |          |          |        |         |
| f-shift   | i LI/R 0      | i R 0    | i C 0    | i LI 0   | RMODE0 | CFLG    |
| unshifted | SSIZE4 0      | SSIZE8 0 | CPXRES 0 | SPCRES 0 | RECT 0 | POLAR 0 |
| Page 2    | F1            | F2       | F3       | F4       | F5     | F6      |

Prev menu [https://47calc.com/doc/R47/Menus/R47v0\\_Menu\\_MODE\\_page\\_1.pdf](https://47calc.com/doc/R47/Menus/R47v0_Menu_MODE_page_1.pdf)

Next menu [https://47calc.com/doc/R47/Menus/R47v0\\_Menu\\_MODE\\_page\\_3.pdf](https://47calc.com/doc/R47/Menus/R47v0_Menu_MODE_page_3.pdf)

Ref 1 [https://47calc.com/doc/Application%20Notes/AN0028\\_C47\\_R47\\_JM\\_Configurability\\_Tour.pdf](https://47calc.com/doc/Application%20Notes/AN0028_C47_R47_JM_Configurability_Tour.pdf)

Ref 2 [https://47calc.com/doc/Application%20Notes/AN0015\\_C47\\_R47\\_JM\\_Write\\_and\\_Read\\_Setting\\_Groups.pdf](https://47calc.com/doc/Application%20Notes/AN0015_C47_R47_JM_Write_and_Read_Setting_Groups.pdf)

| Level      | Label                                      | Type                | FullName                       | Extended description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Category                | Flag   | Catalog                                    | Default |
|------------|--------------------------------------------|---------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------|--------------------------------------------|---------|
| Menu<br>p2 | MODE                                       | MENU                | Mode settings                  | System (mode settings) settings ; replaced by PREF in this layout ; Info : C47 menu MODE is replaced by PREF ; Ref : <a href="https://47calc.com/doc/Application%20Notes/AN0028_C47_R47_JM_Configurability_Tour.pdf">https://47calc.com/doc/Application%20Notes/AN0028_C47_R47_JM_Configurability_Tour.pdf</a>                                                                                                                                                                                                                                            | System                  |        | MODE                                       |         |
| F1         | SSIZE4 <input type="checkbox"/>            | Setting (pgm)       | Stack size 4                   | Switch on 4 register stack ; Info : SBI 8 ; 4 is shown if flag SBss is SET ; SBI : 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Stack                   | SSIZE8 | SSIZE4 <input type="checkbox"/>            | OFF     |
| F2         | SSIZE8 <input checked="" type="checkbox"/> | Setting (pgm)       | Stack Size 8                   | Switch on 8 register stack ; Info : SBI 8 ; 4 is shown if flag SBss is SET ; SBI : 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Stack                   | SSIZE8 | SSIZE8 <input checked="" type="checkbox"/> | ON      |
| F3         | CPXRES <input checked="" type="checkbox"/> | Setting             | Complex results                | Switch on Complex results ; not programmable - in PEM, use flag CPXRES ; Info : CPXRES is auto-set when entering complex input ; SBI C ; R is shown if flag SBcr is SET ; SBI : C ; R                                                                                                                                                                                                                                                                                                                                                                     | Complex numbers         | CPXRES | CPXRES <input checked="" type="checkbox"/> | ON      |
| F4         | SPCRES <input checked="" type="checkbox"/> | Setting             | Special results                | Switch on special results ; not programmable - in PEM, use flag SPCRES ; Info : Special results are: infinity ( $\pm\infty$ ) and not-a-number (NaN), an error will not occur for such values when SPCRES is SET ; also, $\pm 0.$ may be used                                                                                                                                                                                                                                                                                                             | Mathematics             | SPCRES | SPCRES <input checked="" type="checkbox"/> | ON      |
| F5         | RECT <input checked="" type="checkbox"/>   | Setting (pgm)       | Rectangular notation           | Switch on rectangular notation ; Info : SBI L ; <input checked="" type="checkbox"/> is shown if flag SBcp is SET ; SBI : L                                                                                                                                                                                                                                                                                                                                                                                                                                | Complex and coordinates | POLAR  | RECT <input checked="" type="checkbox"/>   | ON      |
| F6         | POLAR <input type="checkbox"/>             | Setting (pgm)       | Polar notation                 | Switch on polar notation ; Info : SBI L ; <input type="checkbox"/> is shown if flag SBcp is SET ; SBI : <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                               | Complex and coordinates | POLAR  | POLAR <input type="checkbox"/>             | OFF     |
| ff1        | i LI/R <input checked="" type="checkbox"/> | Setting (pgm)       | Input Long integer/Real number | New numeric input is put on the stack as Long integer (0) or Real number (1.0-1.5) ; Info : Uses the decimal radix (default ".") to determine the numeric datatype                                                                                                                                                                                                                                                                                                                                                                                        | Numeric input           |        | i LI/R <input checked="" type="checkbox"/> | ON      |
| ff2        | i R <input type="checkbox"/>               | Setting (pgm)       | input Real number              | New numeric input is put on the stack as Real number (1.0-1.5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Numeric input           |        | i R <input type="checkbox"/>               | OFF     |
| ff3        | i C <input type="checkbox"/>               | Setting (pgm)       | Input Complex number           | New numeric input is put on the stack as Complex number (2.0-2.5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Numeric input           |        | i C <input type="checkbox"/>               | OFF     |
| ff4        | i LI <input type="checkbox"/>              | Setting (pgm)       | input Long integer             | New numeric input is put on the stack as Long integer (0) and entry of the decimal radix is ignored ; Info : Switch on dZ.0 for displaying Long integers as Real ; not programmable - in PEM, use flag dZ.0                                                                                                                                                                                                                                                                                                                                               | Numeric input           |        | i LI <input type="checkbox"/>              | OFF     |
| ff5        | RMODE <sub>0</sub>                         | Setting (pgm)       | Set rounding mode              | Set floating point rounding mode ; used for RSD and RDP ; also used when converting from the extended precision internal format to packed reals ; 0 : $\frac{1}{2}E$ = round half even ; 1 : $\frac{1}{2}\uparrow$ = round half up ; 2 : $\frac{1}{2}\downarrow$ = round half down ; 3 : $\leftarrow 0 \rightarrow$ = round away from zero ; 4 : $\rightarrow 0 \leftarrow$ = round towards zero ; 5 : $\lceil x \rceil$ = ceiling ; 6 : $\lfloor x \rfloor$ = floor ; TAM : RMODE _ TamNonReg menu ; Info : may be abbreviated as RM in status overviews | Reals                   |        | RMODE <sub>0</sub>                         | 0       |
| ff6        | CFLG                                       | MENU (item, nonpgm) | Configuration flags            | Activate menu for setting system flags using FF (Flip flag) function ; Ref : <a href="https://47calc.com/doc/Application%20Notes/AN0028_C47_R47_JM_Configurability_Tour.pdf">https://47calc.com/doc/Application%20Notes/AN0028_C47_R47_JM_Configurability_Tour.pdf</a>                                                                                                                                                                                                                                                                                    | Flags                   |        | SYS.FL                                     |         |
| gF1        |                                            |                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |        |                                            |         |
| gF2        |                                            |                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |        |                                            |         |
| gF3        |                                            |                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |        |                                            |         |
| gF4        |                                            |                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |        |                                            |         |
| gF5        |                                            |                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |        |                                            |         |
| gF6        |                                            |                     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |        |                                            |         |

| p2  | MODE                                                                                     | Link                                                                                                                                  |
|-----|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| F1  | SSIZE4  |                                                                                                                                       |
| F2  | SSIZE8  |                                                                                                                                       |
| F3  | CPXRES  |                                                                                                                                       |
| F4  | SPCRES  |                                                                                                                                       |
| F5  | RECT    |                                                                                                                                       |
| F6  | POLAR   |                                                                                                                                       |
| fF1 | i LI/R  |                                                                                                                                       |
| fF2 | i R     |                                                                                                                                       |
| fF3 | i C     |                                                                                                                                       |
| fF4 | i LI    |                                                                                                                                       |
| fF5 | RMODE <sub>0</sub>                                                                       |                                                                                                                                       |
| fF6 | CFLG                                                                                     | <a href="https://47calc.com/doc/R47/Menus/R47v0_Menu_CFLG_page_1.pdf">https://47calc.com/doc/R47/Menus/R47v0_Menu_CFLG_page_1.pdf</a> |
| gF1 |                                                                                          |                                                                                                                                       |
| gF2 |                                                                                          |                                                                                                                                       |
| gF3 |                                                                                          |                                                                                                                                       |
| gF4 |                                                                                          |                                                                                                                                       |
| gF5 |                                                                                          |                                                                                                                                       |
| gF6 |                                                                                          |                                                                                                                                       |