|  |  |  |
| --- | --- | --- |
| F1 | Microoperation | Symbol |
| 000 | None | NOP |
| 001 | AC ←0 | CLRAC |
| 010 | AC←AC+1 | INCAC |
| 011 | AC←DR | DRTAC |
| 100 | AC←AC’ | COMAC |
| 101 | AC←cir AC | CIR |
| 110 | AC←cil AC | CIL |
| 111 | AC←INPR | INPUT |

|  |  |  |
| --- | --- | --- |
| F2 | Microoperation | Symbol |
| 000 | None | NOP |
| 001 | AC ← AC + DR | ADD |
| 010 | AC←AC /\ DR | AND |
| 011 | DR←M[AR] | READ |
| 100 | DR←DR+1 | INCDR |
| 101 | PC←PC+1 | INCPC |
| 110 | TR←PC | PCTDR |
| 111 | PC←0 | CLRPC |

|  |  |  |
| --- | --- | --- |
| F3 | Microoperation | Symbol |
| 000 | None | NOP |
| 001 | M[AR]←DR | WRITE |
| 010 | M[AR]←TR\*\*\* | WRITE2 |
| 011 | AR←0 | CLRAR |
| 100 | IR←M[PC] | RDINS |
| 101 | AR←IR(0-11) | IRTAR |
| 110 | PC←AR | ARTPC |
| 111 | AR←AR+1 | INCAR |

|  |  |  |
| --- | --- | --- |
| F4 | Microoperation | Symbol |
| 000 | None | NOP |
| 001 | IEN←0 | CLRIEN |
| 010 | IEN←1 | SETIEN |
| 011 | E←0 | CLRE |
| 100 | E←E’ | COME |
| 101 | AR←M[AR] | INDR |
| 110 | R←0 | CLRR |
| 111 | R←1 | SETR |

FGI←0

FGI←0