# 控制字与信息点之间对应关系

FH1100装置增加16个控制字，部分控制字与信息点之间对应关系如下面表格；

**控制字1和2（装置），**bit值设置为1：代表按实际运行装置的状态值；bit值设置为0：代表按正常运行装置的状态值；

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 备用 | 备用 | 备用 | 备用 | 备用 | 备用 | 告警 | 故障 | 备用 | 备用 | PTP2 | PTP1 | B2 | B1 | GPS | BDS |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | | | | | | | | | | | | | | |

**控制字3（BDS源 ）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  | 失锁时间 | 源时间 | 钟差值 | 跳变侦测状态 | 模块状态 | 天线状态 | 信号状态 |
|  | 0 | 获取本地时间 | 0 | 0 | 0 | 0 | 0 |

**控制字4（GPS源）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  | 失锁时间 | 源时间 | 钟差值 | 跳变侦测状态 | 模块状态 | 天线状态 | 信号状态 |
|  | 0 | 获取本地时间 | 0 | 0 | 0 | 0 | 0 |

**控制字5（B1源）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  | 失锁时间 | 源时间 | 钟差值 | 跳变侦测状态 |  |  | 信号状态 |
|  | 0 | 获取本地时间 | 0 | 0 |  |  | 0 |

**控制字6（B2源）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  | 失锁时间 | 源时间 | 钟差值 | 跳变侦测状态 |  |  | 信号状态 |
|  | 0 | 获取本地时间 | 0 | 0 |  |  | 0 |

**控制字7（PTP1源）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  | 失锁时间 | 源时间 | 钟差值 | 跳变侦测状态 |  |  | 信号状态 |
|  | 0 | 获取本地时间 | 0 | 0 |  |  | 0 |

**控制字8（PTP2源）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  | 失锁时间 | 源时间 | 钟差值 | 跳变侦测状态 |  |  | 信号状态 |
|  | 0 | 获取本地时间 | 0 | 0 |  |  | 0 |

**控制字9（备用）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**控制字10（备用）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**控制字11（故障）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  |  |  | |  | | --- | | 其它的不可恢复或严重影响装置正常运行的故障 | | |  | | --- | | 所有独立时源均不可用 （装置曾经同步过） | | |  | | --- | | 所有独立时源均不可用 （装置首次同步） | | |  | | --- | | 晶振驯服状态异常 | | |  | | --- | | CPU等核心板卡异常 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**控制字12（告警）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| 电源状态 | 装置同步状态 | |  | | --- | | 其它的可恢复或不影响装置正常运行的故障 | | |  | | --- | | 所有独立时源均不可用 （装置曾经同步过） | | |  | | --- | | 所有独立时源均不可用 （装置首次同步） | | |  | | --- | | 任何一路时间源不可用 | | |  | | --- | | 时间连续性异常 | | |  | | --- | | IRIG-B码输入质量低于本机 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**控制字13（备用）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**控制字14（备用）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**控制字15（备用）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**控制字16（备用）**bit值设置为1：代表按装置的实际情况的状态值；bit值设置为0：代表按下面表格里值；

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|  |  |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |