**金惠核心平台接入**

1. **本体实时****信息获取**

|  |  |  |  |
| --- | --- | --- | --- |
| 接口说明 | 获取机器人本体的实时状态信息 | | |
| 接口协议 | http | | |
| 接口地址 | http://ip:port/RobotPollingMixCtr/OutAccess/getrobotstatus.do | | |
| 请求数据格式 | GET | | |
| 返回数据格式 | jsonstring | | |
| 输入参数 | | | |
| 字段名 | 类型 | 是否必有 | 说明 |
| robotuuid | String | 是 | 机器人唯一识别码，可在web端【机器人管理】里确认 |
| 返回数据格式 | | | |
| positionX | String | 是 | 位置X |
| positionY | String | 是 | 位置Y |
| angle | String | 是 | 位置Z |
| speedX | String | 是 | X速 |
| speedY | String | 是 | Y速 |
| targetpoint | String | 是 | 目标点 |
| targetposition | String | 是 | 目标位置 |
| currentpoint | String | 是 | 当前点 |
| topstation | String | 是 | 顶台位置 |
| batterycurrent | String | 是 | 电量 |
| stopavoid | String | 是 | 停障 |
| cpu | String | 是 | CPU使用率 |
| ram | String | 是 | 故障码 |
| cputempe | String | 是 | 系统温度 |
| robotmotionstatus | String | 是 | 运动状态  S：停止  L：左拐弯  O：在线  R：右拐弯  G：直行  U：调头 |
| robotlogicalstatus | String | 是 | 机器人逻辑状态  0初始  1查看下一点  2寻找目标RFID  3工作点等待  8工作位停车  9充电停车  10等待门开  11任务结束  12出库结束 |
| currentstatus | String | 是 | 当前状态  R：空闲  O：出库  I：入库、  P：巡检  M：远程手动  T：机器人调试  J：手柄模式 |
| currentpath | String | 是 | 当前路径 |
| stoppointseq | String | 是 | 路径中点序 |
| electricityalarm | String | 是 | 电池电量低报警 |
| drivealarm | String | 是 | 驱动报警 |
| isornotreturnzero | String | 否 | 机器人是否寻过原点 |
| confidencelevel | String | 否 | 置信度 |
| chassishumidity | String | 是 | 系统湿度 |
| autochargstartrobot | String | 否 | 机器人自充电启动 |
| maploadstatus | String | 否 | 地图加载状态 |
| ch4 | String | 是 | CH4爆炸线 |
| co | String | 是 | CO浓度 |
| h2s | String | 是 | 硫化氢 |
| o2 | String | 是 | O2浓度体积比 |
| co2 | String | 是 | CO2浓度 |
| PM1.0 | String | 是 | PM1.0 |
| PM2.5 | String | 是 | PM2.5 |
| PM10.0 | String | 是 | PM10.0 |
| windpressure | String | 是 | 风压 |

请求示例：

http://ip:port/RobotPollingMixCtr/OutAccess/getrobotstatus.do?robotuuid=71e3765015aa4de

da47e478223a15895

1. **机器****人控制**

|  |  |  |  |
| --- | --- | --- | --- |
| 接口说明 | 控制机器人前进后退 | | |
| 接口协议 | http | | |
| 接口地址 | http://ip:port/RobotPollingMixCtr/OutAccess/moverobot.do | | |
| 请求数据格式 | GET | | |
| 返回数据格式 | jsonstring | | |
| 输入参数 | | | |
| 字段名 | 类型 | 是否必有 | 说明 |
| robotuuid | String | 是 | 机器人唯一识别码，可在web端【机器人管理】里确认 |
| speed | String | 是 | 机器人运行速度m/s |
| action | String | 是 | 1：前进 2：后退 |
| 返回数据格式 | | | |
| resultcode | String | 是 | 0：操作成功。其他：发生错误 |

**备注：此方法需要周期性执行，每200毫秒调用一次，机器人才能一直走。**

请求示例：

http://ip:port/RobotPollingMixCtr/OutAccess/moverobot.do?robotuuid=71e3765015aa4de

da47e478223a15895&speed=0.2&action=1

1. **任务查看****及下发**

**3.1 任务查看**

|  |  |  |  |
| --- | --- | --- | --- |
| 接口说明 | 查看当前可执行任务 | | |
| 接口协议 | http | | |
| 接口地址 | http://ip:port/RobotPollingMixCtr/OutAccess/gettasklist.do | | |
| 请求数据格式 | GET | | |
| 返回数据格式 | jsonstring | | |
| 输入参数 | | | |
| 字段名 | 类型 | 是否必有 | 说明 |
| count | String | 是 | 查询任务条数 |
| 返回数据格式tasklist | | | |
| id | Int | 是 | 任务id |
| robotname | String | 是 | 机器人名称 |
| taskname | String | 是 | 任务名称 |
| tasktypename | String | 是 | 任务类型 |

**示例：**

http://ip:port/RobotPollingMixCtr/OutAccess/gettasklist.do?count=10

{"tasklist":

[{"id":112,"robotname":"机器人2号","taskname":"0623","tasktypename":"手动巡检任务"},

{"id":109,"robotname":"机器人2号","taskname":"专项","tasktypename":"专项巡检"},

{"id":108,"robotname":"机器人2号","taskname":"全面","tasktypename":"全面巡检"},

{"id":107,"robotname":"机器人2号","taskname":"手动","tasktypename":"手动巡检任务"},

{"id":106,"robotname":"机器人2号","taskname":"每日自动","tasktypename":"每日自动巡检"}]

}

**3.2 任务下发**

|  |  |  |  |
| --- | --- | --- | --- |
| 接口说明 | 给机器人下发任务 | | |
| 接口协议 | http | | |
| 接口地址 | http://ip:port/RobotPollingMixCtr/OutAccess/dotask.do | | |
| 请求数据格式 | GET | | |
| 返回数据格式 | jsonstring | | |
| 输入参数 | | | |
| 字段名 | 类型 | 是否必有 | 说明 |
| taskid | String | 是 | 任务id，可由查看任务取得 |
| position | String | 是 | 机器人当前位置  0:库内 1:库外 |
| 返回数据格式 | | | |
| resultcode | String | 是 | 0：下发成功。其他：下发失败 |

**请求示例：**

http://ip:port/RobotPollingMixCtr/OutAccess/dotask.do?taskid=10&position=1

1. **任务结****果查看**

**4.1查看任务结果列表**

|  |  |  |  |
| --- | --- | --- | --- |
| 接口说明 | 查看已完成的任务列表 | | |
| 接口协议 | http | | |
| 接口地址 | http://ip:port/RobotPollingMixCtr/OutAccess/gettaskresultlist.do | | |
| 请求数据格式 | GET | | |
| 返回数据格式 | jsonstring | | |
| 输入参数 | | | |
| 字段名 | 类型 | 是否必有 | 说明 |
| count | String | 是 | 查询已完成任务条数 |
| 返回数据格式resultlist | | | |
| batchs | String | 是 | 任务批次 |
| createtime | Date | 是 | 任务开始时间 |
| finishtime | Date | 是 | 任务完成时间 |
| id | Int | 是 | 任务结果id |
| taskname | String | 是 | 任务名称 |
| tasktype | String | 是 | 任务类型 |

**示例：**

<http://ip:port/RobotPollingMixCtr/OutAccess/gettaskresultlist.do?count=10>

{"resultlist":

[{"batchs":"20190623112108","createtime":{"date":23,"day":0,"hours":11,"minutes":21,"month":5,"seconds":8,"time":1561260068000,"timezoneOffset":-480,"year":119},"finishtime":{"date":23,"day":0,"hours":11,"minutes":21,"month":5,"seconds":21,"time":1561260081000,"timezoneOffset":-480,"year":119},"id":159,"taskname":"0623","tasktype":"手动巡检任务"},

{"batchs":"20190623112008","createtime":{"date":23,"day":0,"hours":11,"minutes":20,"month":5,"seconds":8,"time":1561260008000,"timezoneOffset":-480,"year":119},"finishtime":{"date":23,"day":0,"hours":11,"minutes":20,"month":5,"seconds":21,"time":1561260021000,"timezoneOffset":-480,"year":119},"id":158,"taskname":"0623","tasktype":"手动巡检任务"}]

}

**4.2查看某条任务的详细信息**

|  |  |  |  |
| --- | --- | --- | --- |
| 接口说明 |  | | |
| 接口协议 | http | | |
| 接口地址 | http://ip:port/RobotPollingMixCtr/OutAccess/getresultdetail.do | | |
| 请求数据格式 | GET | | |
| 返回数据格式 | jsonstring | | |
| 输入参数 | | | |
| 字段名 | 类型 | 是否必有 | 说明 |
| id | String | 是 | 任务结果id |
| 返回数据格式resultdetail | | | |
| batchs | String | 是 | 任务批次 |
| checktype | String | 是 | 动作类型 |
| createtime | Date | 是 | 创建时间 |
| devicename | String | 是 | 表计名称 |
| gstatus | String | 是 | 表计正常值 |
| id | Int | 是 | 任务结果详细id |
| isalarm | String | 是 | 是否报警 |
| path | String | 是 | 图片路径 |
| pointname | String | 是 | 点位名称 |
| result | String | 是 | 表计读取结果 |
| taskname | String | 是 | 任务名称 |
| tasktype | String | 是 | 任务类型 |

**示例：**

http://ip:port/RobotPollingMixCtr/OutAccess/getresultdetail.do?id=62

{"resultdetail":

[{"batchs":"20190512091619","checktype":"高清拍照","createtime":{"date":12,"day":0,"hours":9,"minutes":17,"month":4,"seconds":10,"time":1557623830000,"timezoneOffset":-480,"year":119},"devicename":"SF6压力表2","gstatus":"[0,100]","id":1143,"isalarm":"未报警","path":"http://127.0.0.1:8080/picdata\\2019\\05\\12\\1001\\6\_1\_0002\_20190512091706\_ch01.jpg","pointname":"","result":"36.484","taskname":"100室外01","tasktype":"手动巡检任务"},

{"batchs":"20190512091619","checktype":"高清拍照","createtime":{"date":12,"day":0,"hours":9,"minutes":17,"month":4,"seconds":47,"time":1557623867000,"timezoneOffset":-480,"year":119},"devicename":"SF6压力表1","gstatus":"[0,100]","id":1144,"isalarm":"未报警","path":"http://127.0.0.1:8080/picdata\\2019\\05\\12\\1001\\6\_2\_0001\_20190512091744\_ch01.jpg","pointname":"","result":"65.772","taskname":"100室外01","tasktype":"手动巡检任务"},

{"batchs":"20190512091619","checktype":"高清拍照","createtime":{"date":12,"day":0,"hours":9,"minutes":18,"month":4,"seconds":35,"time":1557623915000,"timezoneOffset":-480,"year":119},"devicename":"SF6压力表7","gstatus":"[0,100]","id":1145,"isalarm":"未报警","path":"http://127.0.0.1:8080/picdata\\2019\\05\\12\\1001\\6\_3\_0007\_20190512091831\_ch01.jpg","pointname":"","result":"95.757","taskname":"100室外01","tasktype":"手动巡检任务"}]

}

1. **报警信****息查看**

|  |  |  |  |
| --- | --- | --- | --- |
| 接口说明 | 查看报警信息 | | |
| 接口协议 | http | | |
| 接口地址 | http://ip:port/RobotPollingMixCtr/OutAccess/getalarminfo.do | | |
| 请求数据格式 | GET | | |
| 返回数据格式 | jsonstring | | |
| 输入参数 | | | |
| 字段名 | 类型 | 是否必有 | 说明 |
| count | String | 是 | 查询条数 |
| alarmtype | String | 否 | 报警类型  1:机器人本体报警  2:表计报警  3:环境气体报警 |
| 返回数据格式resultlist | | | |
| alarmcontent | String | 是 | 报警内容 |
| alarmname | Date | 是 | 设备名称 |
| createTime | Date | 是 | 报警时间 |
| id | Int | 是 | 报警id |
| robotname | String | 是 | 机器人名称 |

**示例：**

http://ip:port/RobotPollingMixCtr/OutAccess/getalarminfo.do?count=10&alarmtype=2

{"alarmlist":

[{"alarmcontent":"CO浓度告警：浓度24.2ppm，(X:0.274,Y:0.348)","alarmname":"","createTime":{"date":23,"day":0,"hours":11,"minutes":2,"month":5,"seconds":57,"time":1561258977000,"timezoneOffset":-480,"year":119},"id":1705,"robotname":""},

{"alarmcontent":"机器人云台192.168.72.173:4001连接异常","alarmname":"","createTime":{"date":23,"day":0,"hours":10,"minutes":54,"month":5,"seconds":47,"time":1561258487000,"timezoneOffset":-480,"year":119},"id":1703,"robotname":""},

{"alarmcontent":"表计名称:100刀闸A相 读值:47.1","alarmname":"100刀闸A相","createTime":{"date":29,"day":3,"hours":10,"minutes":55,"month":4,"seconds":53,"time":1559098553000,"timezoneOffset":-480,"year":119},"id":342,"robotname":""}]}