**Modbus调用以及读写**

private BaseMachine \_modbusMachine;

//TCP连接方式

\_modbusMachine = new ModbusMachine(ModbusType.Tcp, "192.168.3.10", null, true, 2, 0);

//串口连接方式

\_modbusMachine = new ModbusMachine(ModbusType.Rtu, "COM3", null, true, 2, 0);

//读数据组装方式

var addresses = new List<AddressUnit>

{

new AddressUnit

{

Id = "0",

Area = "0X",

Address = 1,

SubAddress = 0,

CommunicationTag = "A1",

DataType = typeof(bool)

}

};

//写数组组装方式

var dic1 = new Dictionary<string, double>()

{

{

"0X 1.0", 20

}

};

//数据赋值

\_modbusMachine.GetAddresses = addresses;

//写入数据

await \_modbusMachine.SetDatasAsync(MachineSetDataType.Address, dic1);

//读取数据

var ans = await \_modbusMachine.GetDatasAsync(MachineGetDataType.Address);

**OPC调用以及读写**

private BaseMachine \_opcMachine;

//OPC连接

\_opcMachine = new FBoxOpcDaMachine("1","测试", null, true);

//读取指令结构

\_opcMachine.GetAddresses = new List<AddressUnit>

{

new AddressUnit()

{

Id = "1",

Name = "蒸汽压力下限",

Area = "0",

Address = 1,

DataType = typeof(ushort)

}

};

//读取指令值

var ans = await \_opcMachine.GetDatasAsync(MachineGetDataType.Id);

//写入指令结构

var success = await \_opcMachine.SetDatasAsync(MachineSetDataType.Id, new Dictionary<string, double>

{

{

"1", 525

}

});

//写入指令值

var ans = await \_opcMachine.GetDatasAsync(MachineGetDataType.Id);