

Documentation P-3X – Interface-DLL (wika_p30.dll)

1. OpenPort

Connects transmitter to COM-Port (9600 Baud)

→ COM-Port (ShortInt)

← Error code (ShortInt): ≥ 0 = Handle; < 0 = error code

2. ClosePort

Disconnects transmitter

→ Handle (ShortInt)

← Error code (ShortInt)

3. ReadDeviceInfo

Reads transmitter data

→ Handle (ShortInt)

← DeviceInfo (tDeviceInfo)

← Error code (ShortInt)

```
tDeviceInfo = record
    SerialNumber      : string;           // Serial number
    ProductNumber     : string;           // Article number
    FirmwareVersion   : string;           // Firmware version
    RangeStart        : single;           // Zero point (ZP)
    RangeEnd          : single;           // Full scale (FS)
    UnitStart         : string;           // physical unit ZP
    UnitEnd           : string;           // physical unit FS
    IsAbsolute        : WordBool;         // true = absolute; false = gauge
    ProductionD       : ShortInt;         // day of manufacture (dd)
    ProductionM       : ShortInt;         // month of manufacture (mm)
    ProductionY       : ShortInt;         // year of manufacture (yy)
end;
```

4. ReadPressure

Reads pressure value

→ Handle (ShortInt)

← pressure value in physical unit (Single)

← Error code (ShortInt)

5. ReadTemperature

Reads temperature value in °C

→ Handle (ShortInt)

← Temperature (Single)

← Error code (ShortInt)

6. ReadDllVersion

Reads the DLL version

← Version (ShortInt)

7. ZP / FS adjustment

7.1 EnableAdjustment

→ Handle (ShortInt)

→ ZP/FS (ShortInt): 0 = Zero point; 1 = Full scale

← Error code (ShortInt)

7.2 StoreAdjustment

→ Handle (ShortInt)

→ ZP/FS (ShortInt): 0 = Zero point; 1 = Full scale

← Error code (ShortInt)

7.3 RestoreAdjustment

→ Handle (ShortInt)

→ ZP/FS (ShortInt): 0 = Zero point; 1 = Full scale

← Error code (ShortInt)

7.4 IncAdjustment

Increase ZP or FS Adjustment

→ Handle (ShortInt)

→ ZP/FS (ShortInt): 0 = Zero point; 1 = Full scale

→ Value (ShortInt): 0...2; Adjustment: 10^{Value} Digit

← Error code (ShortInt)

7.5 DecAdjustment

Decrease ZP or FS Adjustment

→ Handle (ShortInt)

→ ZP/FS (ShortInt): 0 = Zero point; 1 = Full scale

→ Value (ShortInt): 0...2; Adjustment: 10^{Value} Digit

← Error code (ShortInt)

8. Calibration data

8.1 ReadLastCalibrationDate

→ Handle (ShortInt)
← dd (byte), mm (byte), yy (byte)
← Error code (ShortInt)

8.2 ReadNextCalibrationDate

→ Handle (ShortInt)
← dd (byte), mm (byte), yy (byte)
← Error code (ShortInt)

8.3 WriteLastCalibrationDate

→ Handle (ShortInt)
← dd (byte), mm (byte), yy (byte)
← Error code (ShortInt)

8.4 WriteNextCalibrationDate

→ Handle (ShortInt)
← dd (byte), mm (byte), yy (byte)
← Error code (ShortInt)

9. Set operating mode and transfer rate

9.1 SetOperatingMode

→ Handle (ShortInt)
→ Non volatile (WordBool): false = volatile; true = non volatile
→ OperatingMode (byte)
 0 = Polling mode
 1 = Cyclic mode (pressure value in digit)
 2 = Cyclic mode (pressure and temperature value in digit)
 3 = Cyclic mode (pressure value in physical unit)
 4 = Cyclic mode (pressure and temperature value in physical unit)
← Error code (ShortInt)

9.2 SetCyclicInterval

Sets transfer rate
→ Handle (ShortInt)
→ Non volatile (WordBool): false = volatile; true = non volatile
→ transfer rate (word)
← Error code (ShortInt)