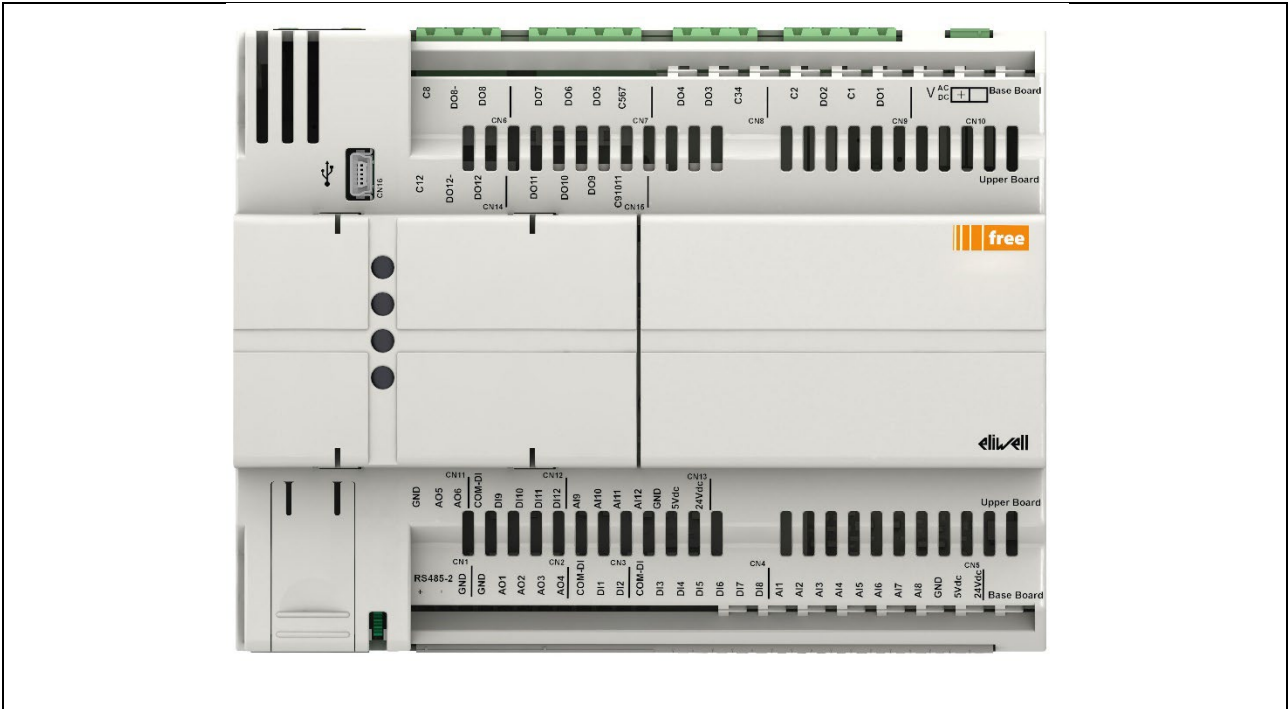




WVM 5TH WHITE CONTROL

MODBUS VARIABLES



DESCRIPTION OF MODBUS VARIABLES

The Modbus on WVM 5th generation is Modicon standard (so 1-based addresses).

All the variables are access as Holding register (Modbus function FC03, 40000).

As standard configuration, RS-485 baudrate 19200, 8bit, Even, stop 1 address 16, you can change it by the touch screen.

As standard configuration, IP address 10.0.0.10, port 502, you can change it by the touch screen.

| Tag | Address | Type | Access | Description | u.m. | |
|------|---------|------|--------|-------------|---|---|
| iVER | 8960 | - | UINT | ReadOnly | PLC software version | x |
| iVS1 | 8961 | - | INT | ReadOnly | 0 if vessel 1 in standby 1 if vessel 1 in adsorption 2 if vessel 1 in heating 3 if vessel 1 in cooling | x |
| iVS2 | 8962 | - | INT | ReadOnly | 0 if vessel 2 in standby 1 if vessel 2 in adsorption 2 if vessel 2 in heating 3 if vessel 2 in cooling | x |
| iVMP | 8963 | - | INT | ReadOnly | 0 if vacuum pump OFF 1 if vacuum pump ON in heating 2 if vacuum pump ON in cooling | x |



| Tag | Address | | Type | Access | Description | u.m. |
|------|---------|---------|------|----------|--|------|
| iHEA | 8964 | - | INT | ReadOnly | 0 if heater OFF 1 if heater ON in heating 2 if heater OFF in cooling | x |
| iON | 8965 | - | INT | ReadOnly | 0 if dryer OFF 1 if dryer ON 2 if dryer STOP after regeneration | x |
| sAL1 | 8966 | - | WORD | ReadOnly | status of alarm, word 1 | x |
| aP01 | - | 8966.0 | BIT | ReadOnly | pression in vessel 1 sensor broken | x |
| aP02 | - | 8966.1 | BIT | ReadOnly | pression in vessel 2 sensor broken | x |
| aPDP | - | 8966.2 | BIT | ReadOnly | pressure dew point sensor broken | x |
| aFM | - | 8966.3 | BIT | ReadOnly | flow meter sensor broken (option) | x |
| aR1 | - | 8966.4 | BIT | ReadOnly | heating sensor broken | x |
| aR2 | - | 8966.5 | BIT | ReadOnly | regeneration sensor broken | x |
| aR3 | - | 8966.6 | BIT | ReadOnly | inlet air sensor broken | x |
| aR4 | - | 8966.7 | BIT | ReadOnly | outlet air sensor broken | x |
| aR5 | - | 8966.8 | BIT | ReadOnly | used only in W1230 version | x |
| aR6 | - | 8966.9 | BIT | ReadOnly | used only in W1230 version | x |
| aVMP | - | 8966.10 | BIT | ReadOnly | motor protection vacuum pump | x |
| aTSH | - | 8966.11 | BIT | ReadOnly | safety thermostat heater | x |
| aTA1 | - | 8966.12 | BIT | ReadOnly | current phase 1 sensor broken | x |
| aTA3 | - | 8966.13 | BIT | ReadOnly | current phase 3 sensor broken | x |
| x | - | 8966.14 | BIT | ReadOnly | not used | x |
| x | - | 8966.15 | BIT | ReadOnly | not used | x |
| sAL2 | 8967 | - | WORD | ReadOnly | status of alarm, word 2 | x |
| aLPR | - | 8967.0 | BIT | ReadOnly | low pressure in vessel in line | x |
| aTHO | - | 8967.1 | BIT | ReadOnly | monitoring heater time | x |
| aWDP | - | 8967.2 | BIT | ReadOnly | warning high dew point | x |
| aPDP | - | 8967.3 | BIT | ReadOnly | alarm high dew point | x |
| aTPR | - | 8967.4 | BIT | ReadOnly | regeneration valve open | x |
| aPRV | - | 8967.5 | BIT | ReadOnly | working pressure | x |
| aEM | - | 8967.6 | BIT | ReadOnly | emergency button (if installed) | x |
| aSTM | - | 8967.7 | BIT | ReadOnly | service time | x |
| aEV1 | - | 8967.8 | BIT | ReadOnly | generic alarm main valve (if limit swith installed) | x |
| aEV3 | - | 8967.9 | BIT | ReadOnly | generic alarm regeneration valve | x |
| aEV5 | - | 8967.10 | BIT | ReadOnly | generic alarm expansion valve | x |
| x | - | 8967.11 | BIT | ReadOnly | not used | x |
| aPRS | - | 8967.12 | BIT | ReadOnly | pressure alarm | x |



| Tag | Address | | Type | Access | Description | u.m. |
|------|---------|---------|------|----------|---|------|
| x | - | 8967.13 | BIT | ReadOnly | not used | x |
| x | - | 8967.14 | BIT | ReadOnly | not used | x |
| aGL | - | 8967.15 | BIT | ReadOnly | general alarm | x |
| sAL3 | 8968 | - | WORD | ReadOnly | status of alarm, word 3 | x |
| x | - | 8968.0 | BIT | ReadOnly | not used | x |
| x | - | 8968.1 | BIT | ReadOnly | not used | x |
| x | - | 8968.2 | BIT | ReadOnly | not used | x |
| x | - | 8968.3 | BIT | ReadOnly | not used | x |
| x | - | 8968.4 | BIT | ReadOnly | not used | x |
| x | - | 8968.5 | BIT | ReadOnly | not used | x |
| x | - | 8968.6 | BIT | ReadOnly | not used | x |
| x | - | 8968.7 | BIT | ReadOnly | not used | x |
| x | - | 8968.8 | BIT | ReadOnly | not used | x |
| x | - | 8968.9 | BIT | ReadOnly | not used | x |
| x | - | 8968.10 | BIT | ReadOnly | not used | x |
| x | - | 8968.11 | BIT | ReadOnly | not used | x |
| x | - | 8968.12 | BIT | ReadOnly | not used | x |
| x | - | 8968.13 | BIT | ReadOnly | not used | x |
| x | - | 8968.14 | BIT | ReadOnly | not used | x |
| x | - | 8968.15 | BIT | ReadOnly | not used | x |
| sST1 | 8969 | | WORD | ReadOnly | status of dryer, word 1 | x |
| bON | - | 8969.0 | BIT | ReadOnly | dryer ON | x |
| bVAR | - | 8969.1 | BIT | ReadOnly | cycle fixed or dew point depend | x |
| bEV1 | - | 8969.2 | BIT | ReadOnly | main valve in vessel 1 (without hardware feedback) - if false main valve in vessel 2 (without hardware feedback) - if true | x |
| bEXP | - | 8969.3 | BIT | ReadOnly | expansion phase - if true | x |
| bEOK | - | 8969.4 | BIT | ReadOnly | expansione finished good - if true | x |
| bREG | - | 8969.5 | BIT | ReadOnly | regeneration phase - if true | x |
| brG1 | - | 8969.6 | BIT | ReadOnly | regeneration vessel 1 - if true | x |
| brG2 | - | 8969.7 | BIT | ReadOnly | regeneration vessel 2 - if true | x |
| bHON | - | 8969.8 | BIT | ReadOnly | heating phase - if true | x |
| bCL | - | 8969.9 | BIT | ReadOnly | cooling phase - if true | x |
| bVCL | - | 8969.10 | BIT | ReadOnly | vessel cooled - if true | x |
| bPRS | - | 8969.11 | BIT | ReadOnly | pressurization phase - if true | x |
| bNV1 | - | 8969.12 | BIT | ReadOnly | no pressure vessel 1 - if true | x |



| Tag | Address | | Type | Access | Description | u.m. |
|-------------|---------|---------|------|----------|---------------------------------|------|
| bNV2 | | 8969.13 | | ReadOnly | no pressure vessel 2 - if true | x |
| bEX1 | - | 8969.14 | BIT | ReadOnly | in expansion vessel 1 - if true | x |
| bEX2 | - | 8969.15 | BIT | ReadOnly | in expansion vessel 2 - if true | x |
| sST2 | 8970 | - | WORD | ReadOnly | status of dryer, word 2 | x |
| x | - | 8970.0 | BIT | ReadOnly | not used | x |
| x | - | 8970.1 | BIT | ReadOnly | not used | x |
| x | - | 8970.2 | BIT | ReadOnly | not used | x |
| x | - | 8970.3 | BIT | ReadOnly | not used | x |
| x | - | 8970.4 | BIT | ReadOnly | not used | x |
| x | - | 8970.5 | BIT | ReadOnly | not used | x |
| x | - | 8970.6 | BIT | ReadOnly | not used | x |
| x | - | 8970.7 | BIT | ReadOnly | not used | x |
| x | - | 8970.8 | BIT | ReadOnly | not used | x |
| x | - | 8970.9 | BIT | ReadOnly | not used | x |
| x | - | 8970.10 | BIT | ReadOnly | not used | x |
| x | - | 8970.11 | BIT | ReadOnly | not used | x |
| x | - | 8970.12 | BIT | ReadOnly | not used | x |
| x | - | 8970.13 | BIT | ReadOnly | not used | x |
| x | - | 8970.14 | BIT | ReadOnly | not used | x |
| x | - | 8970.15 | BIT | ReadOnly | not used | x |
| sST3 | 8971 | - | WORD | ReadOnly | status of dryer, word 3 | x |
| x | - | 8971.0 | BIT | ReadOnly | not used | x |
| x | - | 8971.1 | BIT | ReadOnly | not used | x |
| x | - | 8971.2 | BIT | ReadOnly | not used | x |
| x | - | 8971.3 | BIT | ReadOnly | not used | x |
| x | - | 8971.4 | BIT | ReadOnly | not used | x |
| x | - | 8971.5 | BIT | ReadOnly | not used | x |
| x | - | 8971.6 | BIT | ReadOnly | not used | x |
| x | - | 8971.7 | BIT | ReadOnly | not used | x |
| x | - | 8971.8 | BIT | ReadOnly | not used | x |
| x | - | 8971.9 | BIT | ReadOnly | not used | x |
| x | - | 8971.10 | BIT | ReadOnly | not used | x |
| x | - | 8971.11 | BIT | ReadOnly | not used | x |
| x | - | 8971.12 | BIT | ReadOnly | not used | x |
| x | - | 8971.13 | BIT | ReadOnly | not used | x |



| Tag | Address | | Type | Access | Description | u.m. |
|-------|---------|---------|------|----------|--|------|
| x | - | 8971.14 | BIT | ReadOnly | not used | x |
| x | - | 8971.15 | BIT | ReadOnly | not used | x |
| sDIO1 | 8972 | - | WORD | ReadOnly | status of digital input, word 1 | x |
| xLS11 | - | 8972.0 | BIT | ReadOnly | main valve in vessel 1 (if limit switch installed) - if true | x |
| xLS12 | - | 8972.1 | BIT | ReadOnly | main valve in vessel 2 (if limit switch installed) - if true | x |
| yEV11 | - | 8972.2 | BIT | ReadOnly | main valve on vessel 2 - if true | x |
| yEV12 | - | 8972.3 | BIT | ReadOnly | main valve on vessel 1 - if true | x |
| xLS31 | - | 8972.4 | BIT | ReadOnly | regeneration valve open - if true | x |
| xLS32 | - | 8972.5 | BIT | ReadOnly | regeneration valve closed - if true | x |
| yEV31 | - | 8972.6 | BIT | ReadOnly | regeneration valve open - if true | x |
| yEV32 | - | 8972.7 | BIT | ReadOnly | regeneration valve closed - if true | x |
| xRO | - | 8972.8 | BIT | ReadOnly | remote ON/OFF physical contact (ON if true) | x |
| xEM | - | 8972.9 | BIT | ReadOnly | emergency button (if installed) - good if true | x |
| xQVP | - | 8972.10 | BIT | ReadOnly | circuit breaker vacuum pump (closed if true) | x |
| xTSH | - | 8972.11 | BIT | ReadOnly | safety thermostat of heater (good if true) | x |
| yKM1 | - | 8972.12 | BIT | ReadOnly | contactor heater stage 1 | x |
| yKM2 | - | 8972.13 | BIT | ReadOnly | contactor heater stage 2 | x |
| yKM3 | - | 8972.14 | BIT | ReadOnly | contactor vacuum pump | x |
| x | - | 8972.15 | BIT | ReadOnly | not used | x |
| sDIO2 | 8973 | | WORD | ReadOnly | status of digital input, word 2 | x |
| x | - | 8973.0 | BIT | ReadOnly | not used | x |
| x | - | 8973.1 | BIT | ReadOnly | not used | x |
| x | - | 8973.2 | BIT | ReadOnly | not used | x |
| yEV4 | - | 8973.3 | BIT | ReadOnly | pressurization valve | x |
| yEV5 | - | 8973.4 | BIT | ReadOnly | expansion valve | x |
| yEV6 | - | 8973.5 | BIT | ReadOnly | steam regeneration valve | x |
| yEV8 | - | 8973.6 | BIT | ReadOnly | spare | x |
| yEV9 | - | 8973.7 | BIT | ReadOnly | cooling loop valve | x |
| x | - | 8973.8 | BIT | ReadOnly | not used | x |
| x | - | 8973.9 | BIT | ReadOnly | not used | x |
| x | - | 8973.10 | BIT | ReadOnly | not used | x |
| x | - | 8973.11 | BIT | ReadOnly | not used | x |



| Tag | Address | | Type | Access | Description | u.m. |
|-------|---------|---------|------|------------|--|------|
| x | - | 8973.12 | BIT | ReadOnly | not used | x |
| x | - | 8973.13 | BIT | ReadOnly | not used | x |
| x | - | 8973.14 | BIT | ReadOnly | not used | x |
| yAL | - | 8973.15 | BIT | ReadOnly | free contact general alarm | x |
| sDIO3 | 8974 | | WORD | ReadOnly | status of digital input, word 2 | x |
| x | - | 8974.0 | BIT | ReadOnly | not used | x |
| x | - | 8974.1 | BIT | ReadOnly | not used | x |
| x | - | 8974.2 | BIT | ReadOnly | not used | x |
| x | - | 8974.3 | BIT | ReadOnly | not used | x |
| x | - | 8974.4 | BIT | ReadOnly | not used | x |
| x | - | 8974.5 | BIT | ReadOnly | not used | x |
| x | - | 8974.6 | BIT | ReadOnly | not used | x |
| x | - | 8974.7 | BIT | ReadOnly | not used | x |
| x | - | 8974.8 | BIT | ReadOnly | not used | x |
| x | - | 8974.9 | BIT | ReadOnly | not used | x |
| x | - | 8974.10 | BIT | ReadOnly | not used | x |
| x | - | 8974.11 | BIT | ReadOnly | not used | x |
| x | - | 8974.12 | BIT | ReadOnly | not used | x |
| x | - | 8974.13 | BIT | ReadOnly | not used | x |
| x | - | 8974.14 | BIT | ReadOnly | not used | x |
| x | - | 8974.15 | BIT | ReadOnly | not used | x |
| cWd1 | 8975 | - | WORD | Read/Write | command word 1 | x |
| x | - | 8975.0 | BIT | Read/Write | not used | x |
| x | - | 8975.1 | BIT | Read/Write | not used | x |
| x | - | 8975.2 | BIT | Read/Write | not used | x |
| x | - | 8975.3 | BIT | Read/Write | not used | x |
| cSTM | - | 8975.4 | BIT | Read/Write | reset service time | x |
| cHVP | - | 8975.5 | BIT | Read/Write | reset hours vacuum pump | x |
| x | - | 8975.6 | BIT | Read/Write | not used | x |
| x | - | 8975.7 | BIT | Read/Write | not used | x |
| x | - | 8975.8 | BIT | Read/Write | not used | x |
| cKVP | - | 8975.9 | BIT | Read/Write | reset counter contactor vacuum pump | x |
| cHH1 | - | 8975.10 | BIT | Read/Write | reset hours heater stage 1 | x |
| cHH2 | - | 8975.11 | BIT | Read/Write | reset hours heater stage 2 | x |
| cKH1 | - | 8975.12 | BIT | Read/Write | reset counter contactor heater stage 1 | x |
| cKH2 | - | 8975.13 | BIT | Read/Write | reset counter contactor heater stage 2 | x |



| Tag | Address | | Type | Access | Description | u.m. |
|-------------|---------|---------|-------|------------|---|---------|
| cHHS | - | 8975.14 | BIT | Read/Write | reset hours steam heater | x |
| x | - | 8975.15 | BIT | Read/Write | not used | x |
| cWd2 | 8976 | | WORD | Read/Write | command word 2 | x |
| x | - | 8976.0 | BIT | Read/Write | not used | x |
| x | - | 8976.1 | BIT | Read/Write | not used | x |
| x | - | 8976.2 | BIT | Read/Write | not used | x |
| x | - | 8976.3 | BIT | Read/Write | not used | x |
| x | - | 8976.4 | BIT | Read/Write | not used | x |
| x | - | 8976.5 | BIT | Read/Write | not used | x |
| x | - | 8976.6 | BIT | Read/Write | not used | x |
| x | - | 8976.7 | BIT | Read/Write | not used | x |
| x | - | 8976.8 | BIT | Read/Write | not used | x |
| x | - | 8976.9 | BIT | Read/Write | not used | x |
| x | - | 8976.10 | BIT | Read/Write | not used | x |
| x | - | 8976.11 | BIT | Read/Write | not used | x |
| x | - | 8976.12 | BIT | Read/Write | not used | x |
| x | - | 8976.13 | BIT | Read/Write | not used | x |
| x | - | 8976.14 | BIT | Read/Write | not used | x |
| x | - | 8976.15 | BIT | Read/Write | not used | x |
| iR1 | 8977 | - | INT | ReadOnly | current value of heating temperature | 1/10 °C |
| iR2 | 8978 | - | INT | ReadOnly | current value of regeneration temperature | 1/10 °C |
| iR3 | 8979 | - | INT | ReadOnly | current value of inlet air temperature | 1/10 °C |
| iR4 | 8980 | - | INT | ReadOnly | current value of outlet air temperature | 1/10 °C |
| iR5 | 8981 | - | INT | ReadOnly | used only in W1230 version | 1/10 °C |
| iR6 | 8982 | - | INT | ReadOnly | used only in W1230 version | 1/10 °C |
| iP01 | 8983 | - | INT | ReadOnly | current value of pression in vessel 1 | bar |
| iP02 | 8984 | - | INT | ReadOnly | current value of pression in vessel 2 | bar |
| iPDP | 8985 | - | INT | ReadOnly | current value of pressure dew point | 1/10 °C |
| iSp1 | 8986 | - | INT | ReadOnly | not used | x |
| iSp2 | 8987 | - | INT | ReadOnly | not used | x |
| iSp3 | 8988 | - | INT | ReadOnly | not used | x |
| iSp4 | 8989 | - | INT | ReadOnly | not used | x |
| sT0 | 8990 | - | USINT | ReadOnly | time of standby in current cycle | hrs |
| sT1 | 8991 | - | USINT | ReadOnly | time of adsorption in current cycle | hrs |
| sT2 | 8992 | - | USINT | ReadOnly | time of expansion in current cycle | min |
| sT3 | 8993 | - | USINT | ReadOnly | time of heating in current cycle | min |



| Tag | Address | Type | Access | Description | u.m. |
|------|------------|-------|------------|--|--------|
| sT4 | 8994 - | USINT | ReadOnly | time of cooling in current cycle | min |
| iSp5 | 8995 - | INT | ReadOnly | not used | x |
| sT5 | 8996 - | USINT | ReadOnly | time of pressurization in current cycle | min |
| sT7 | 8997 - | USINT | ReadOnly | hours working heater stage 1 | hrs |
| sT8 | 8998 - | USINT | ReadOnly | hours working heater stage 2 (if installed) | hrs |
| sT9 | 8999 - | USINT | ReadOnly | hours working steam stage (with optional steam regeneration) | hrs |
| iSp6 | 9000 - | INT | ReadOnly | not used | x |
| sT11 | 9001 - | USINT | ReadOnly | hours count down service time | hrs |
| sT10 | 9002 - | USINT | ReadOnly | hours working of vacuum pump | hrs |
| sCHG | 9003 - | USINT | ReadOnly | number of change of vessels | n |
| sKM1 | 9004 - | USINT | ReadOnly | number of switch off contactor heater stage 1 | n x100 |
| sKM2 | 9005 - | USINT | ReadOnly | number of switch off contactor heater stage 2 (if installed) | n x100 |
| sKM3 | 9006 - | USINT | ReadOnly | number of switch off contactor vacuum pump | n x100 |
| sEX1 | 9007 - | USINT | ReadOnly | number of expansion vessel 1 | n |
| sEX2 | 9008 - | USINT | ReadOnly | number of expansion vessel 2 | n |
| cOPT | 16415 - | WORD | Read/Write | command word 2 | x |
| x | - 16415.0 | BIT | Read/Write | not used | x |
| x | - 16415.1 | BIT | Read/Write | not used | x |
| x | - 16415.2 | BIT | Read/Write | not used | x |
| x | - 16415.3 | BIT | Read/Write | not used | x |
| x | - 16415.4 | BIT | Read/Write | not used | x |
| x | - 16415.5 | BIT | Read/Write | not used | x |
| x | - 16415.6 | BIT | Read/Write | not used | x |
| x | - 16415.7 | BIT | Read/Write | not used | x |
| x | - 16415.8 | BIT | Read/Write | not used | x |
| x | - 16415.9 | BIT | Read/Write | not used | x |
| x | - 16415.10 | BIT | Read/Write | not used | x |
| x | - 16415.11 | BIT | Read/Write | not used | x |
| x | - 16415.12 | BIT | Read/Write | not used | x |
| x | - 16415.13 | BIT | Read/Write | not used | x |
| x | - 16415.14 | BIT | Read/Write | not used | x |
| cON | - 16415.15 | BIT | Read/Write | command dryer ON | x |
| | | | | | |
| | | | | | |



WVM 5TH HCDC CONTROL

MODBUS VARIABLES



DESCRIPTION OF MODBUS VARIABLES

The Modbus on WVM 5th generation is Modicon standard (so 1-based addresses).

All the variables are access as Holding register (Modbus function FC03, 4000).

As standard configuration, RS-485 baudrate 19200, 8bit, Even, stop 1 address 16, you can change it by the touch screen.

As standard configuration, IP address 10.0.0.10, port 502, you can change it by the touch screen.

| Tag | Address | Type | Access | Description | u.m. |
|-------------|---------|-------|----------|---|---------|
| iVER | 8960 | UINT | ReadOnly | PLC software version | x |
| x | 8961 | INT | ReadOnly | not used | x |
| x | 8962 | INT | ReadOnly | not used | x |
| DES | 8963 | UDINT | ReadOnly | last change of dessicant | x |
| BDP | 8965 | UDINT | ReadOnly | last dewpoint sensor calibration | x |
| iR1 | 8967 | INT | ReadOnly | current value of heating temperature | 1/10 °C |
| iR2 | 8968 | INT | ReadOnly | current value of regeneration temperature | 1/10 °C |
| iR3 | 8969 | INT | ReadOnly | current value of inlet air temperature | 1/10 °C |
| iR4 | 8970 | INT | ReadOnly | current value of outlet air temperature | 1/10 °C |



| Tag | Address | Type | Access | Description | u.m. |
|-------|---------|------|----------|---|----------|
| iP01 | 8971 | INT | ReadOnly | current value of pression in vessel 1 | bar |
| iP02 | 8972 | INT | ReadOnly | current value of pression in vessel 2 | bar |
| iPDP | 8973 | INT | ReadOnly | current value of pressure dew point | 1/10 °C |
| iSp1 | 8974 | INT | ReadOnly | not used | x |
| iTA1 | 8975 | INT | ReadOnly | current value of total current phase 1 | 1/10 A |
| iTA3 | 8976 | INT | ReadOnly | current value of total current phase 3 | 1/10 A |
| iB3 | 8977 | INT | ReadOnly | current value of ambient temperature (if installed) | 1/10 °C |
| iRH | 8978 | INT | ReadOnly | current value of ambient humidity (if installed) | 1/10 RH% |
| iR5 | 8979 | INT | ReadOnly | used only in W1230 version | 1/10 °C |
| iR6 | 8980 | INT | ReadOnly | used only in W1230 version | 1/10 °C |
| iSp2 | 8981 | INT | ReadOnly | not used | x |
| iSp3 | 8982 | INT | ReadOnly | not used | x |
| sDI1 | 8983 | WORD | ReadOnly | status of digital input, word 1 | x |
| xLS11 | 8983.0 | BIT | ReadOnly | main valve in vessel 1 (if limit swith installed) - if true | x |
| xLS12 | 8983.1 | BIT | ReadOnly | main valve in vessel 2 (if limit swith installed) - if true | x |
| xLS31 | 8983.2 | BIT | ReadOnly | regeneration valve open - if true | x |
| xLS32 | 8983.3 | BIT | ReadOnly | regeneration valve closed - if true | x |
| xQVP | 8983.4 | BIT | ReadOnly | circuit breaker vacuum pump (closed if true) | x |
| xEH1 | 8983.5 | BIT | ReadOnly | safety thermostat of heater (good if true) | x |
| xRO | 8983.6 | BIT | ReadOnly | remote ON/OFF phisical contact (ON if true) | x |
| xEM | 8983.7 | BIT | ReadOnly | emergency button (if installed) - good if true | x |
| x | 8983.8 | BIT | ReadOnly | not used | x |
| x | 8983.9 | BIT | ReadOnly | not used | x |
| x | 8983.10 | BIT | ReadOnly | not used | x |
| x | 8983.11 | BIT | ReadOnly | not used | x |
| x | 8983.12 | BIT | ReadOnly | not used | x |
| x | 8983.13 | BIT | ReadOnly | not used | x |
| x | 8983.14 | BIT | ReadOnly | not used | x |
| x | 8983.15 | BIT | ReadOnly | not used | x |
| sDI2 | 8984 | WORD | ReadOnly | status of digital input, word 2 | x |
| x | 8984.0 | BIT | ReadOnly | not used | x |



| Tag | Address | Type | Access | Description | u.m. |
|-------|---------|------|----------|-------------------------------------|------|
| x | 8984.1 | BIT | ReadOnly | not used | x |
| x | 8984.2 | BIT | ReadOnly | not used | x |
| x | 8984.3 | BIT | ReadOnly | not used | x |
| x | 8984.4 | BIT | ReadOnly | not used | x |
| x | 8984.5 | BIT | ReadOnly | not used | x |
| x | 8984.6 | BIT | ReadOnly | not used | x |
| x | 8984.7 | BIT | ReadOnly | not used | x |
| x | 8984.8 | BIT | ReadOnly | not used | x |
| x | 8984.9 | BIT | ReadOnly | not used | x |
| x | 8984.10 | BIT | ReadOnly | not used | x |
| x | 8984.11 | BIT | ReadOnly | not used | x |
| x | 8984.12 | BIT | ReadOnly | not used | x |
| x | 8984.13 | BIT | ReadOnly | not used | x |
| x | 8984.14 | BIT | ReadOnly | not used | x |
| x | 8984.15 | BIT | ReadOnly | not used | x |
| sDO1 | 8985 | WORD | ReadOnly | status of digital output, word 1 | x |
| yEV11 | 8985.0 | BIT | ReadOnly | main valve on vessel 2 - if true | x |
| yEV12 | 8985.1 | BIT | ReadOnly | main valve on vessel 1 - if true | x |
| yEV31 | 8985.2 | BIT | ReadOnly | regeneration valve open - if true | x |
| yEV32 | 8985.3 | BIT | ReadOnly | regeneration valve closed - if true | x |
| yEV4 | 8985.4 | BIT | ReadOnly | pressurization valve | x |
| yEV5 | 8985.5 | BIT | ReadOnly | expansion valve | x |
| yEV6 | 8985.6 | BIT | ReadOnly | steam regeneration valve | x |
| yEV8 | 8985.7 | BIT | ReadOnly | spare | x |
| yEV9 | 8985.8 | BIT | ReadOnly | cooling loop valve | x |
| yKM1 | 8985.9 | BIT | ReadOnly | contactor heater stage 1 | x |
| yKM2 | 8985.10 | BIT | ReadOnly | contactor heater stage 2 | x |
| yKM3 | 8985.11 | BIT | ReadOnly | contactor vacuum pump | x |
| yKM4 | 8985.12 | BIT | ReadOnly | contactor Ystart (if installed) | x |
| yKM5 | 8985.13 | BIT | ReadOnly | contactor Dstart (if installed) | x |
| yAL | 8985.14 | BIT | ReadOnly | free contact general alarm | x |
| x | 8985.15 | BIT | ReadOnly | not used | x |
| sDO2 | 8986 | WORD | ReadOnly | status of digital output, word 2 | x |
| x | 8986.0 | BIT | ReadOnly | not used | x |
| x | 8986.1 | BIT | ReadOnly | not used | x |
| x | 8986.2 | BIT | ReadOnly | not used | x |



| Tag | Address | Type | Access | Description | u.m. |
|-------|---------|------|----------|--|------|
| x | 8986.3 | BIT | ReadOnly | not used | x |
| x | 8986.4 | BIT | ReadOnly | not used | x |
| x | 8986.5 | BIT | ReadOnly | not used | x |
| x | 8986.6 | BIT | ReadOnly | not used | x |
| x | 8986.7 | BIT | ReadOnly | not used | x |
| x | 8986.8 | BIT | ReadOnly | not used | x |
| x | 8986.9 | BIT | ReadOnly | not used | x |
| x | 8986.10 | BIT | ReadOnly | not used | x |
| x | 8986.11 | BIT | ReadOnly | not used | x |
| x | 8986.12 | BIT | ReadOnly | not used | x |
| x | 8986.13 | BIT | ReadOnly | not used | x |
| x | 8986.14 | BIT | ReadOnly | not used | x |
| x | 8986.15 | BIT | ReadOnly | not used | x |
| sST1 | 8987 | WORD | ReadOnly | status of dryer, word 1 | x |
| bEV11 | 8987.0 | BIT | ReadOnly | main valve in vessel 1 (without hardware feedback) - if true | x |
| bEV12 | 8987.1 | BIT | ReadOnly | main valve in vessel 2 (without hardware feedback) - if true | x |
| bON | 8987.2 | BIT | ReadOnly | dryer ON | x |
| bVAR | 8987.3 | BIT | ReadOnly | cycle fixed or dew point depend | x |
| bEXP | 8987.4 | BIT | ReadOnly | expansion phase - if true | x |
| bEOK | 8987.5 | BIT | ReadOnly | expansione finished good - if true | x |
| bREG | 8987.6 | BIT | ReadOnly | regeneration phase - if true | x |
| brG1 | 8987.7 | BIT | ReadOnly | regeneration vessel 1 - if true | x |
| brG2 | 8987.8 | BIT | ReadOnly | regeneration vessel 2 - if true | x |
| bHON | 8987.9 | BIT | ReadOnly | heating phase - if true | x |
| bCL | 8987.10 | BIT | ReadOnly | cooling phase - if true | x |
| bVCL | 8987.11 | BIT | ReadOnly | vessel cooled - if true | x |
| bPRS | 8987.12 | BIT | ReadOnly | pressurization phase - if true | x |
| bNV1 | 8987.13 | BIT | ReadOnly | no pressure vessel 1 - if true | x |
| bNV2 | 8987.14 | BIT | ReadOnly | no pressure vessel 2 - if true | x |
| x | 8987.15 | BIT | ReadOnly | not used | x |
| sST2 | 8988 | WORD | ReadOnly | status of dryer, word 2 | x |
| bEX1 | 8988.0 | BIT | ReadOnly | in expansion vessel 1 - if true | x |
| bEX2 | 8988.1 | BIT | ReadOnly | in expansion vessel 2 - if true | x |
| x | 8988.2 | BIT | ReadOnly | not used | x |
| x | 8988.3 | BIT | ReadOnly | not used | x |



| Tag | Address | Type | Access | Description | u.m. |
|-------------|---------|------|----------|-------------------------|------|
| x | 8988.4 | BIT | ReadOnly | not used | x |
| x | 8988.5 | BIT | ReadOnly | not used | x |
| x | 8988.6 | BIT | ReadOnly | not used | x |
| x | 8988.7 | BIT | ReadOnly | not used | x |
| x | 8988.8 | BIT | ReadOnly | not used | x |
| x | 8988.9 | BIT | ReadOnly | not used | x |
| x | 8988.10 | BIT | ReadOnly | not used | x |
| x | 8988.11 | BIT | ReadOnly | not used | x |
| x | 8988.12 | BIT | ReadOnly | not used | x |
| x | 8988.13 | BIT | ReadOnly | not used | x |
| x | 8988.14 | BIT | ReadOnly | not used | x |
| x | 8988.15 | BIT | ReadOnly | not used | x |
| sST3 | 8989 | WORD | ReadOnly | status of dryer, word 3 | x |
| x | 8989.0 | BIT | ReadOnly | not used | x |
| x | 8989.1 | BIT | ReadOnly | not used | x |
| x | 8989.2 | BIT | ReadOnly | not used | x |
| x | 8989.3 | BIT | ReadOnly | not used | x |
| x | 8989.4 | BIT | ReadOnly | not used | x |
| x | 8989.5 | BIT | ReadOnly | not used | x |
| x | 8989.6 | BIT | ReadOnly | not used | x |
| x | 8989.7 | BIT | ReadOnly | not used | x |
| x | 8989.8 | BIT | ReadOnly | not used | x |
| x | 8989.9 | BIT | ReadOnly | not used | x |
| x | 8989.10 | BIT | ReadOnly | not used | x |
| x | 8989.11 | BIT | ReadOnly | not used | x |
| x | 8989.12 | BIT | ReadOnly | not used | x |
| x | 8989.13 | BIT | ReadOnly | not used | x |
| x | 8989.14 | BIT | ReadOnly | not used | x |
| x | 8989.15 | BIT | ReadOnly | not used | x |
| sST4 | 8990 | WORD | ReadOnly | status of dryer, word 4 | x |
| x | 8990.0 | BIT | ReadOnly | not used | x |
| x | 8990.1 | BIT | ReadOnly | not used | x |
| x | 8990.2 | BIT | ReadOnly | not used | x |
| x | 8990.3 | BIT | ReadOnly | not used | x |
| x | 8990.4 | BIT | ReadOnly | not used | x |
| x | 8990.5 | BIT | ReadOnly | not used | x |



| Tag | Address | Type | Access | Description | u.m. |
|------|---------|------|----------|--|------|
| x | 8990.6 | BIT | ReadOnly | not used | x |
| x | 8990.7 | BIT | ReadOnly | not used | x |
| x | 8990.8 | BIT | ReadOnly | not used | x |
| x | 8990.9 | BIT | ReadOnly | not used | x |
| x | 8990.10 | BIT | ReadOnly | not used | x |
| x | 8990.11 | BIT | ReadOnly | not used | x |
| x | 8990.12 | BIT | ReadOnly | not used | x |
| x | 8990.13 | BIT | ReadOnly | not used | x |
| x | 8990.14 | BIT | ReadOnly | not used | x |
| x | 8990.15 | BIT | ReadOnly | not used | x |
| sAL1 | 8991 | WORD | ReadOnly | status of alarm, word 1 | x |
| aR1 | 8991.0 | BIT | ReadOnly | heating sensor broken | x |
| aR2 | 8991.1 | BIT | ReadOnly | regeneration sensor broken | x |
| aR3 | 8991.2 | BIT | ReadOnly | inlet air sensor broken | x |
| aR4 | 8991.3 | BIT | ReadOnly | outlet air sensor broken | x |
| aP01 | 8991.4 | BIT | ReadOnly | pression in vessel 1 sensor broken | x |
| aP02 | 8991.5 | BIT | ReadOnly | pression in vessel 2 sensor broken | x |
| aPDP | 8991.6 | BIT | ReadOnly | pressure dew point sensor broken | x |
| aSp1 | 8991.7 | BIT | ReadOnly | not used | x |
| aTA1 | 8991.8 | BIT | ReadOnly | current phase 1 sensor broken | x |
| aTA3 | 8991.9 | BIT | ReadOnly | current phase 3 sensor broken | x |
| aB3 | 8991.10 | BIT | ReadOnly | ambient temperature sensor broken (if installed) | x |
| aRH | 8991.11 | BIT | ReadOnly | ambient humidity sensor broken (if installed) | x |
| aR5 | 8991.12 | BIT | ReadOnly | used only in W1230 version | x |
| aR6 | 8991.13 | BIT | ReadOnly | used only in W1230 version | x |
| aPH1 | 8991.14 | BIT | ReadOnly | internal error controller 1 | x |
| aPH2 | 8991.15 | BIT | ReadOnly | internal error controller 2 | x |
| sAL2 | 8992 | WORD | ReadOnly | status of alarm, word 2 | x |
| aLPR | 8992.0 | BIT | ReadOnly | low pressure in vessel in line | x |
| aTHO | 8992.1 | BIT | ReadOnly | monitoring heater time | x |
| aWDP | 8992.2 | BIT | ReadOnly | warning high dew point | x |
| aPDP | 8992.3 | BIT | ReadOnly | alarm high dew point | x |
| aTPR | 8992.4 | BIT | ReadOnly | regeneration valve open | x |
| aPRV | 8992.5 | BIT | ReadOnly | working pressure | x |
| aEM | 8992.6 | BIT | ReadOnly | emergency button (if installed) | x |



| Tag | Address | Type | Access | Description | u.m. |
|------|---------|------|----------|--|------|
| aSTM | 8992.7 | BIT | ReadOnly | service time | x |
| aEV1 | 8992.8 | BIT | ReadOnly | generic alarm main valve (if limit switch installed) | x |
| aEV3 | 8992.9 | BIT | ReadOnly | generic alarm regeneration valve | x |
| aEV4 | 8992.10 | BIT | ReadOnly | generic alarm pressurization valve | x |
| aEV5 | 8992.11 | BIT | ReadOnly | generic alarm expansion valve | x |
| aPRS | 8992.12 | BIT | ReadOnly | pressure alarm | x |
| x | 8992.13 | BIT | ReadOnly | not used | x |
| x | 8992.14 | BIT | ReadOnly | not used | x |
| aGL | 8992.15 | BIT | ReadOnly | general alarm | x |
| sAL3 | 8993 | WORD | ReadOnly | status of alarm, word 3 | x |
| x | 8993.0 | BIT | ReadOnly | not used | x |
| x | 8993.1 | BIT | ReadOnly | not used | x |
| x | 8993.2 | BIT | ReadOnly | not used | x |
| x | 8993.3 | BIT | ReadOnly | not used | x |
| x | 8993.4 | BIT | ReadOnly | not used | x |
| x | 8993.5 | BIT | ReadOnly | not used | x |
| x | 8993.6 | BIT | ReadOnly | not used | x |
| x | 8993.7 | BIT | ReadOnly | not used | x |
| x | 8993.8 | BIT | ReadOnly | not used | x |
| x | 8993.9 | BIT | ReadOnly | not used | x |
| x | 8993.10 | BIT | ReadOnly | not used | x |
| x | 8993.11 | BIT | ReadOnly | not used | x |
| x | 8993.12 | BIT | ReadOnly | not used | x |
| x | 8993.13 | BIT | ReadOnly | not used | x |
| x | 8993.14 | BIT | ReadOnly | not used | x |
| x | 8993.15 | BIT | ReadOnly | not used | x |
| sAL4 | 8994 | WORD | ReadOnly | status of alarm, word 4 | x |
| x | 8994.0 | BIT | ReadOnly | not used | x |
| x | 8994.1 | BIT | ReadOnly | not used | x |
| x | 8994.2 | BIT | ReadOnly | not used | x |
| x | 8994.3 | BIT | ReadOnly | not used | x |
| x | 8994.4 | BIT | ReadOnly | not used | x |
| x | 8994.5 | BIT | ReadOnly | not used | x |
| x | 8994.6 | BIT | ReadOnly | not used | x |
| x | 8994.7 | BIT | ReadOnly | not used | x |
| x | 8994.8 | BIT | ReadOnly | not used | x |



| Tag | Address | Type | Access | Description | u.m. |
|-------------|---------|------|------------|--|------|
| x | 8994.9 | BIT | ReadOnly | not used | x |
| x | 8994.10 | BIT | ReadOnly | not used | x |
| x | 8994.11 | BIT | ReadOnly | not used | x |
| x | 8994.12 | BIT | ReadOnly | not used | x |
| x | 8994.13 | BIT | ReadOnly | not used | x |
| x | 8994.14 | BIT | ReadOnly | not used | x |
| x | 8994.15 | BIT | ReadOnly | not used | x |
| cWd1 | 8995 | WORD | Read/Write | command word 1 | x |
| cON | 8995.0 | BIT | Read/Write | command dryer ON | x |
| cRST | 8995.1 | BIT | Read/Write | reset to factory set | x |
| cSTM | 8995.2 | BIT | Read/Write | reset service time | x |
| cHVP | 8995.3 | BIT | Read/Write | reset hours vacuum pump | x |
| cHH1 | 8995.4 | BIT | Read/Write | reset hours heater stage 1 | x |
| cHH2 | 8995.5 | BIT | Read/Write | reset hours heater stage 2 | x |
| cHHS | 8995.6 | BIT | Read/Write | reset hours steam heater | x |
| cKVP | 8995.7 | BIT | Read/Write | reset counter contactor vacuum pump | x |
| cKH1 | 8995.8 | BIT | Read/Write | reset counter contactor heater stage 1 | x |
| cKH2 | 8995.9 | BIT | Read/Write | reset counter contactor heater stage 2 | x |
| x | 8995.10 | BIT | Read/Write | not used | x |
| x | 8995.11 | BIT | Read/Write | not used | x |
| x | 8995.12 | BIT | Read/Write | not used | x |
| x | 8995.13 | BIT | Read/Write | not used | x |
| x | 8995.14 | BIT | Read/Write | not used | x |
| x | 8995.15 | BIT | Read/Write | not used | x |
| cWd2 | 8996 | WORD | Read/Write | command word 2 | x |
| x | 8996.0 | BIT | Read/Write | not used | x |
| x | 8996.1 | BIT | Read/Write | not used | x |
| x | 8996.2 | BIT | Read/Write | not used | x |
| x | 8996.3 | BIT | Read/Write | not used | x |
| x | 8996.4 | BIT | Read/Write | not used | x |
| x | 8996.5 | BIT | Read/Write | not used | x |
| x | 8996.6 | BIT | Read/Write | not used | x |
| x | 8996.7 | BIT | Read/Write | not used | x |
| x | 8996.8 | BIT | Read/Write | not used | x |
| x | 8996.9 | BIT | Read/Write | not used | x |
| x | 8996.10 | BIT | Read/Write | not used | x |



| Tag | Address | Type | Access | Description | u.m. |
|------|---------|-------|------------|--|---------|
| x | 8996.11 | BIT | Read/Write | not used | x |
| x | 8996.12 | BIT | Read/Write | not used | x |
| x | 8996.13 | BIT | Read/Write | not used | x |
| x | 8996.14 | BIT | Read/Write | not used | x |
| x | 8996.15 | BIT | Read/Write | not used | x |
| sT0 | 8997 | USINT | ReadOnly | time of standby in current cycle | hrs |
| sT1 | 8998 | USINT | ReadOnly | time of adsorption in current cycle | hrs |
| sT2 | 8999 | USINT | ReadOnly | time of expansion in current cycle | min |
| sT3 | 9000 | USINT | ReadOnly | time of heating in current cycle | min |
| sT4 | 9001 | USINT | ReadOnly | time of cooling in current cycle | min |
| sT5 | 9002 | USINT | ReadOnly | time of pressurization in current cycle | min |
| sT6 | 9003 | USINT | ReadOnly | hours working of dryer | hrs |
| sT7 | 9004 | USINT | ReadOnly | hours working heater stage 1 | hrs |
| sT8 | 9005 | USINT | ReadOnly | hours working heater stage 2 (if installed) | hrs |
| sT9 | 9006 | USINT | ReadOnly | hours working steam stage (with optional steam regeneration) | hrs |
| sT10 | 9007 | USINT | ReadOnly | hours working of vacuum pump | hrs |
| sT11 | 9008 | USINT | ReadOnly | hours count down service time | hrs |
| sKM1 | 9009 | USINT | ReadOnly | number of switch off contactor heater stage 1 | n x100 |
| sKM2 | 9010 | USINT | ReadOnly | number of switch off contactor heater stage 2 (if installed) | n x100 |
| sKM3 | 9011 | USINT | ReadOnly | number of switch off contactor vacuum pump | n x100 |
| sEX1 | 9012 | USINT | ReadOnly | number of expansion vessel 1 | n |
| sEX2 | 9013 | USINT | ReadOnly | number of expansion vessel 2 | n |
| sCHG | 9014 | USINT | ReadOnly | number of change of vessels | n |
| sSH1 | 9015 | INT | ReadOnly | set (read only) of heating temperature stage 1 | 1/10 °C |
| sSH2 | 9016 | INT | ReadOnly | set (read only) of heating temperature stage 2 | 1/10 °C |
| sSH3 | 9017 | INT | ReadOnly | set (read only) of heating temperature stage 3 | 1/10 °C |
| sSRT | 9018 | INT | ReadOnly | set (read only) of regeneration temperature | 1/10 °C |
| sSCO | 9019 | INT | ReadOnly | set (read only) of end cooling temperature | 1/10 °C |