

"Expressions"

© 2004-2024 AGG Software

1		1
2		1
3	Expressions	2
4		3
5		3
6		4
1		4
2		4
3		6
4		7
5		8
6		9
7		11

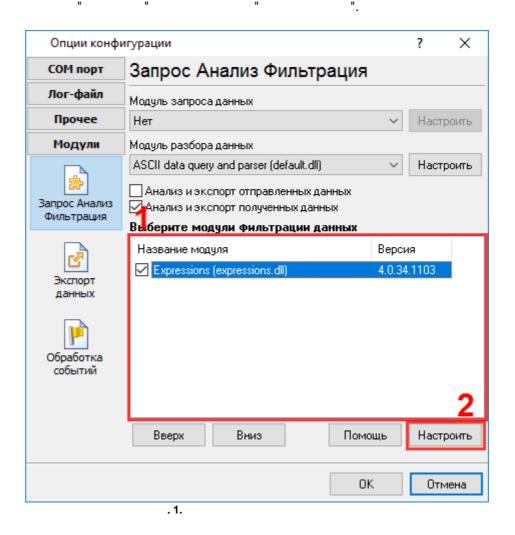
2

```
"Expressions"
                                       , Advanced Serial Data Logger)
        : ABS, ATAN, COS, EXP, LN, ROUND, SIN, SQRT, SQR, TRUNC
   : COPY, REPLACE, POS
    : AND, OR, XOR . .
Expressions
      : Windows 2000 SP4
                                                   32-x 64-x
                                        5 MB
```

),

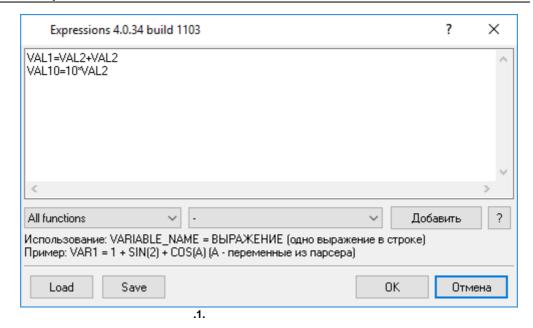
Advanced Serial Data Logger.

3 Expressions



5

```
Plug-in -
Advanced Serial Data Logger
                               ( .1).
VARIABLE_NAME=EXPRESSION
   VARIABLE_NAME -
            EXPRESSION -
1.
2.
                                                          );
3.
                                                                               );
                  "Add /
```



6.1

TRUE -FALSE -

```
X.
                                                                           Χ
ARCTANH(X) -
       -1 1 (
                                                                         X.
                                                                                      Χ
CEIL(X) - Ceil
                    MaxInt.
Ceil(-2.8) = -2
Ceil(2.8) = 3
Ceil(-1.0) = -1
CLIP(X, Min, Max) -
                                 Min,
                                           X \le Min;
                                                                 Max,
                                                                            X >= Max,
            X.
CLIP(2, 3, 4) = 3
CLIP(3, 2, 4) = 3
CLIP(4, 2, 3) = 3
COS(X) -
                                                Χ,
                                                      Χ-
COSH(X) -
                                                                   Χ,
                                                                         Χ-
COTAN(X),
COTG(X) - Cotan
                                                                  X.
                      Cotg
         - 1 / Tan(X);
DEG(X) -
                                                     = (180 / Pi)
EXP(X) -
                                           Χ,
FLOOR(X) -
                                                      X.
Floor(-2.8) = -3
Floor(2.8) = 2
Floor(-1.0) = -1
                         Χ
FRAC(X) -
                                                 X. X-
                        X;
                                  , Frac(X) = X - Int(X).
                                     Χ
HEX(X) -
LN(X) -
                                                                  X. X -
                                            (Ln(e) = 1)
LOG(Base, X) -
                                             Χ
                                                                         Base.
POW(Base, Exponent), POWER(Base, Exponent) -
                                                              Base
                                                                             Exponent,
Exponent -
                                          Exponent
                                                                               65535,
Base
                           0;
```

```
POWLN2(X) -
                    Ln2
RAD(X) -
                                             = (Pi / 180)
RANDOM(X) -
                                                        0 <= X <
         0 <= X < 1.
                                       RANDOM(X)
          :
                                    RANDOM(X)
ROUND(X) -
                                   . ROUND(X)
( ). X-
                                                                     Int64,
                                       Χ-
                                                                "Banker's
Rounding".
SIGN(X) -
0
1
-1
SIN(X) -
                                       Χ,
                                          X -
SINH(X) -
                                                       X;
SQR(X) -
                                 . X -
      , X, -
                    Χ,
                           X*X.
SQRT(X) - X -
                                                                   X.
TAN(X), TG(X) - Tan
                                       X. Tan(X) = Sin(X) / Cos(X).
                    Tg
TRUNC(X) -
( ). X-
                                   . TRUNC(X)
                                                                    Int64,
/ -
                                                  0. : x**y
           65535,
```

```
< -
<= -
<> -
>= -
AND -
            AND,
                                 . : X and Y
DIV -
                                 x div y
                                                      x/y
MOD -
          . MOD
      x = x - (x \text{ div } y) * y.
OR -
             OR,
                                                          : X or Y
SHL -
                                                    : . : X shl 2
SHR -
XOR -
             XOR,
                                              : . : X xor Y
FIRSTLINE(S) -
                                               CR
                                                  LF.
REMOVECHAR(S, Char) -
                                                                Char -
              , S -
REMOVENONPRINT(S) -
                                 S
      ASCII < 32).
REPLACE(S, OldPattern, NewPattern) -
        . REPLACE
                                             OldPattern
           NewPattern. S -
OldPattern -
                                            NewPattern. NewPattern -
              OldPattern.
REPLACECHAR(S, OldChar, NewChar) -
```

```
REPLACECHAR
                                             OldChar
NewChar. S -
                                                           . OldChar -
                            NewChar. NewChar -
                                                                          OldChar.
SUBSTR(S, Index, Count), STRCOPY(S, Index, Count), COPY(S, Index, Count) -
               . Copy
                             S
                                       [Index].
                                                     Count
                                                                                  S
                       [Index]
                                                                           S, Copy
                                                    Index
                                                                             , S
                                                                               ).
STRPOS(Substr, S), POS(Substr, S) -
                                                Substr
Substr S - . Pos
                          Substr
                                           S
                                                        Substr
                                                                         S.
Pos
                                         Substr
                                                           , Pos
TRIMLEFT(S), LTRIM(S) -
TRIMRIGHT(S), RTRIM(S) -
TRIM(S) -
DATE() -
                                                           - DateTime.
DATE(S) -
                                      DateTime,
                                                                        S.
                             : DATE('15.01.2007')
      S - 'DD.MM.YYYY'.
DATE(Y,M,D) -
                                         DateTime,
                                                                             Υ(),
                                    : DATE(2007, 1, 15)
M ( ), D ( ) (
DAY(X) -
                                           X.
                                                                        DateTime.
GOMONTH(X,Y) -
                                Υ
                                        X. Y
                                      Χ
                                                        DateTime.
MONTH(X) -
                                                 X.
DateTime.
NOW -
                                                                 - DateTime.
TIME() -
                                                           - DateTime.
                                                              S.
                                                                              S-
TIME(S) -
'HH:NN'.
             : TIME('15:21').
                                                     - DateTime.
```

```
TIME(H,M,S,MS) -
                                                                   H (
                                                                       ), M
      ), S (
                 )
                                             : TIME(15, 21, 0, 0).
        - DateTime.
                                            X.
YEAR(X) -
                                                                        DateTime.
IIF(X,Y,Z) -
                                Χ
                                              Z.
Υ,
NVL(X,Y) -
                                                                     NULL (
                        Χ
                                  Y.
DISCARD_DATA_PACKET_IF(X,Y) -
                                                      Χ
                                               Υ,
DISCARD_DATA_PACKET_IF(VAR > 10, "Value is too big")
GENERATE_EVENT_IF(X,Y,N1,V1,N2,V2) -
                                                           Χ
                                               Υ,
                                                              N1, V1 .. Nn, Vn,
EVENT-TO-CFG
                                    EVENT-GLOBAL=TRUE,
SEND_EVENT_IF -
                                  GENERATE_EVENT_IF.
GENERATE_EVENT_IF(VAR > 10, "VAR_TOO_BIG_EVENT", "VAR_NAME", "VAR",
"VAR_VALUE", VAR)
GENERATE_EVENT_IF(VAR > 10, "VAR_TOO_BIG_EVENT1", "EVENT-TO-CFG", "COM1")
GENERATE_EVENT_IF(VAR > 10, "VAR_TOO_BIG_EVENT2", "EVENT-GLOBAL", TRUE)
REDIRECT_DATA_IF(X, Y) -
                                              Χ
                                                                            Υ,
                                    DISCARD_DATA_PACKET_IF.
```

REDIRECT_DATA_IF(VAR > 10, "COM2")

DISCARD_DATA_PACKET_IF(1=1)

SEND_BYTE_IF(X, Y) -

(COM TCP).

(00)11

 $SEND_DATA_IF(X, Y) - X Y$

.

.

SEND_DATA_TO_DATA_SOURCE_IF(VAR > 10, "COM2", "Data string" + CHR(13) + CHR(10))

, Y. . .

•

MAX(A,B) - , . MAX

MIN(A,B) - , . MIN

.

SUM(A,B) - A+B, A B

BYTETOSTR(X) - 1 X

DOUBLETOSTR(X) - 8 X .

DOUBLETOSTRBE(X) - 8 "Big-endian" X

INT64TOSTR(X) - 8 X 64

INT64TOSTRBE(X) - 8 "Big-endian" X

64

LONGINTTOSTR(X) - 4 X 32

LONGINTTOSTRBE(X) - 4 "Big-endian" X

32

LONGWORDTOSTR(X) -4 Χ 32 LONGWORDTOSTRBE(X) -"Big-endian" Χ 4 32 SINGLETOSTR(X) -4 Χ "Big-endian" SINGLETOSTRBE(X) -4 Χ SMALLINTTOSTR(X) -2 Χ 16 SMALLINTTOSTRBE(X) -"Big-endian" 2 Χ WORDTOSTR(X) -2 Χ 16 WORDTOSTRBE(X) -2 "Big-endian" Χ

6.7

delphi "

Google : pascal " _ "