

"Expressions"

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1

- "Expressions" (, Advanced Serial Data Logger)

• + :
 • - :
 • * :
 • / :
 • ^ : (-)

: ABS, ATAN, COS, EXP, LN, ROUND, SIN, SQRT, SQR, TRUNC
 ;
 : COPY, REPLACE, POS ;
 : AND, OR, XOR . .

2

Expressions :

• Windows 95;
 • Windows 95 OSR2;
 • Windows 98;
 • Windows Me;
 • Windows NT4;
 • Windows 2000;
 • Windows XP (all editions) (both x86 and x64);
 • Windows 2003 Server (both x86 and x64);
 • Windows Vista (both x86 and x64).

: 5 MB
 :
 , :
 (), Advanced Serial Data Logger.

Microsoft Vista:

Program

Files,

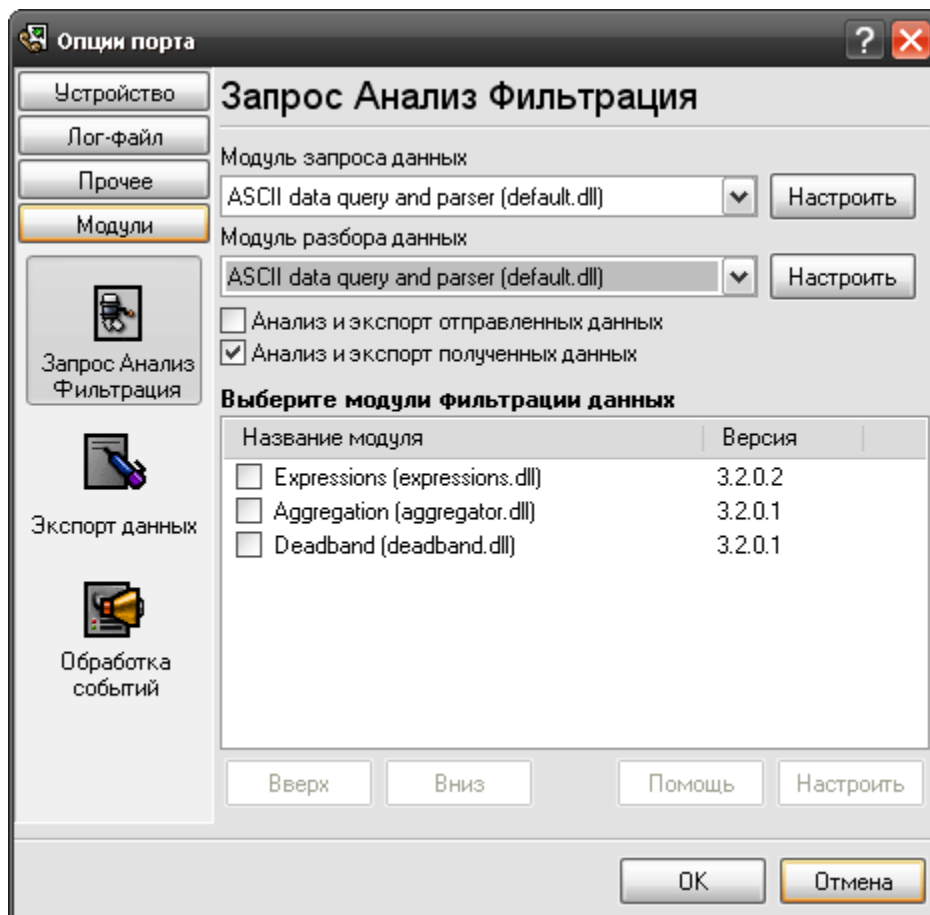
- 1.
- 2.
3. Windows Vista

Google.

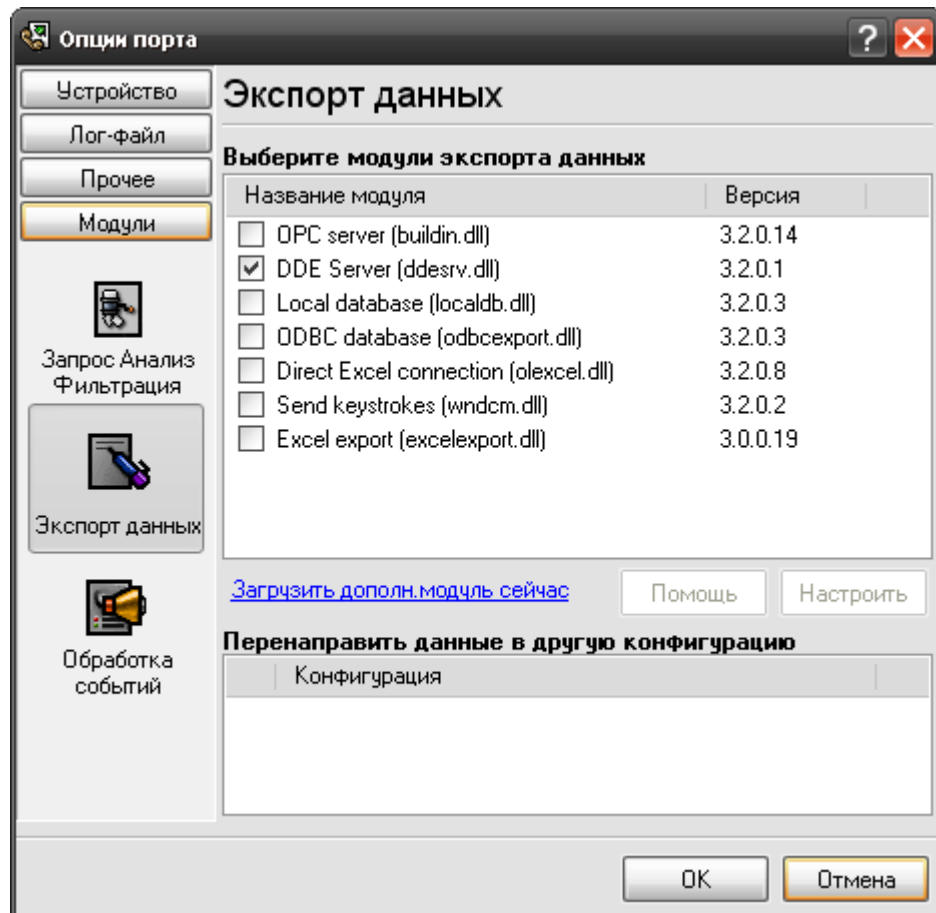
3**Expressions**

1. (, Advanced Serial Data Logger),
2. ;
3. Windows;
4. " " ;
5. " " ;

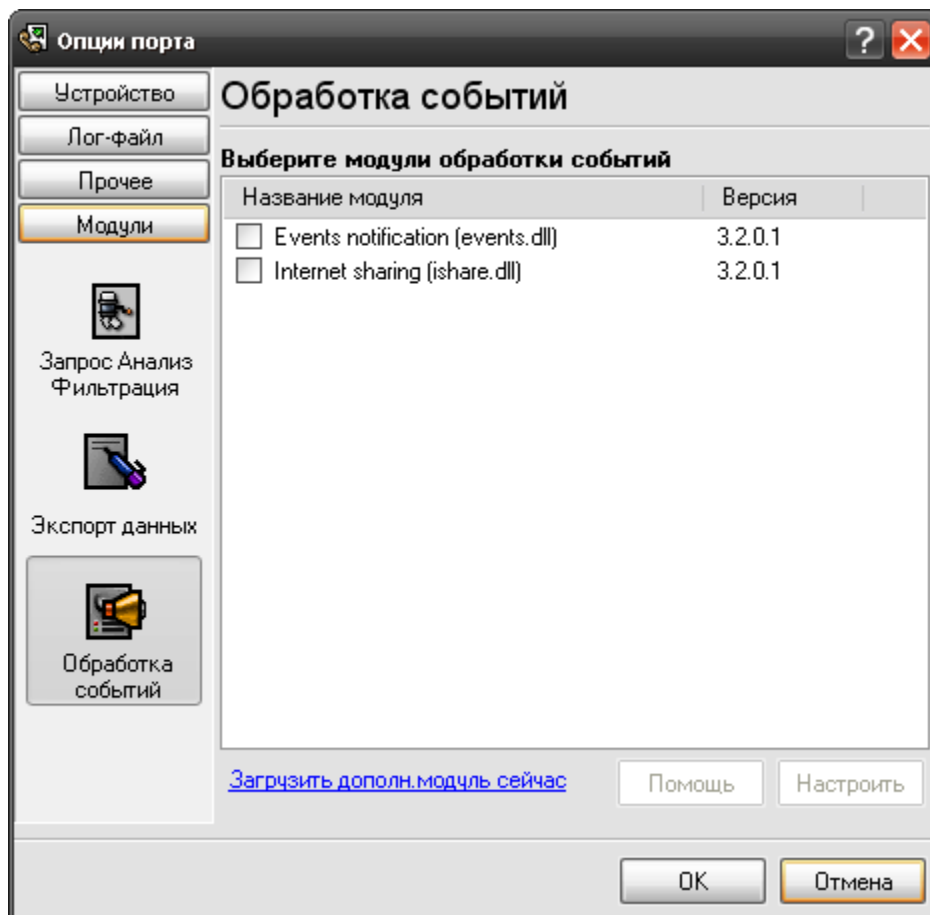
.1-2.



.1.



.2.



.3.

4

Plug-in -

: Advanced Serial Data Logger

5

5.1

(.1).

:

VARIABLE_NAME=EXPRESSION
 VARIABLE_NAME -
 EXPRESSION - /

(" ").

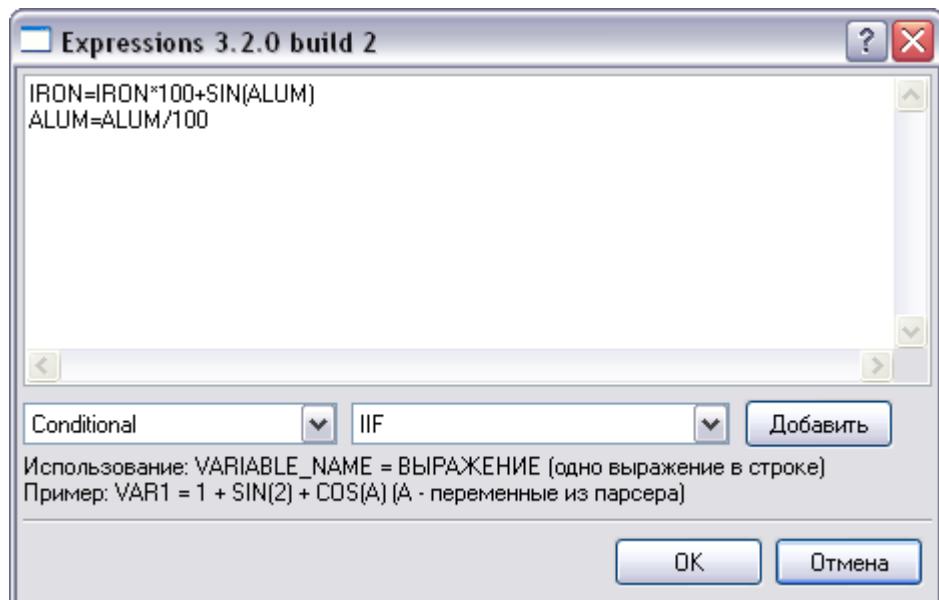
,

,

,

- , :

1. ;
2. ();
3. , (
4.); "Add /".



.1.

5.2

5.2.1

ABS(X) - X . $X -$ -

ARCCOS(X) - $($ $) X$. X
 -1 $1.$ $-$ $[0..Pi],$ $.$

ARCCOSH(X) - $X.$ X
 $1.$

ARCSIN(X) - $X.$ X -1 $1.$
 $[-Pi/2..Pi/2],$ $.$

ARCSINH(X) - $X.$

ARCTAN2(X, Y) - $ArcTan (Y/X),$ $.$
 $0.$ -2^{64} $2^{64}.$ $,$ $-Pi$ $Pi,$ $.$

ARCTANH(X) - $X.$ X
 -1 $1 ($ $).$

CEIL(X) - Ceil $,$ $X.$ X
 $MaxInt.$

$:$
 Ceil(-2.8) = -2
 Ceil(2.8) = 3
 Ceil(-1.0) = -1

CLIP(X, Min, Max) - $Min,$ $X <= Min;$ $Max,$ $X >= Max,$
 $X.$

$:$
 CLIP(2, 3, 4) = 3
 CLIP(3, 2, 4) = 3
 CLIP(4, 2, 3) = 3

COS(X) - $,$ $X,$ $X -$ $;$

COSH(X) - $,$ $X,$ $X -$
 $;$

COTAN(X),
COTG(X) - $Cotan$ $Cotg$ $,$ $X.$
 $- 1 / Tan(X);$

DEG(X) - Converts the angle X from radians to degrees. $\text{DEG}(X) = (180 / \text{Pi}) * X$;

EXP(X) - Returns the value of the exponential function e^X ;

FLOOR(X) - Returns the integer part of X.
 :
 Floor(-2.8) = -3
 Floor(2.8) = 2
 Floor(-1.0) = -1
 : X

FRAC(X) - Returns the fractional part of X. $\text{Frac}(X) = X - \text{Int}(X)$;

HEX(X) - Converts the number X to hexadecimal ;

LN(X) - Returns the natural logarithm of X. $(\text{Ln}(e) = 1)$;

LOG(Base, X) - Returns the logarithm of X to the base Base.
 X Base.

POW(Base, Exponent), POWER(Base, Exponent) - Returns the value of Base raised to the power of Exponent.
 Base Exponent, 65535,
 Base 0;

POWLN2(X) - Returns the value of X raised to the power of Ln2 ;

RAD(X) - Converts the angle X from degrees to radians. $\text{RAD}(X) = (\text{Pi} / 180) * X$;

RANDOM(X) - Returns a random number between 0 and X.
 0 <= X < 1.
 : **RANDOM(X)**
 , **RANDOM(X)** ;

ROUND(X) - Returns the value of X rounded to the nearest integer.
 (). X - **ROUND(X)** Int64,
 X -
 "Banker's Rounding".

SIGN(X) - Returns the sign of X.
 0
 1
 -1

SHR - , : . : . : X
shr 2

XOR - XOR, : . : . : X xor Y

5.2.3

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] Index
S, Copy (, S) ;

STRPOS(Substr, S), POS(Substr, S) - Substr S.
Substr S - . Pos Substr S

S. Pos Substr
Pos Substr

TRIMLEFT(S), LTRIM(S) -

TRIMRIGHT(S), RTRIM(S) -

TRIM(S) -

5.2.4

DATE() - DateTime .

DATE(S) - DateTime , S.
S - 'DD.MM.YYYY'. : DATE('15.01.2007')

DATE(Y,M,D) - DateTime , Y
(), M (), D () (). : DATE(2007, 1, 15)

DAY(X) - X. DateTime.

GOMONTH(X,Y) - Y X. Y
X DateTime.

MONTH(X) - X. DateTime.

NOW - DateTime.

TIME() - DateTime.

TIME(S) - S, S -
'HH:NN'. : TIME('15:21'). - DateTime.

TIME(H,M,S,MS) - H (), M
(), S () (). : TIME(15, 21, 0, 0). - DateTime.

YEAR(X) - X. DateTime.

5.2.5

IIF(X,Y,Z) - X, Y, Z.

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) - 64	8		"Big-endian"	X
LONGINTTOSTR(X) -	4		X	32
LONGINTTOSTRBE(X) - 32	4		"Big-endian"	X
LONGWORDTOSTR(X) - 32	4		X	
LONGWORDTOSTRBE(X) - 32	4	4	"Big-endian"	X
SINGLETOSTR(X) -	4		X	.
SINGLETOSTRBE(X) -	4		"Big-endian"	X
SMALLINTTOSTR(X) -	2		X	16
SMALLINTTOSTRBE(X) - 16	2		"Big-endian"	X
WORDTOSTR(X) -	2		X	16
WORDTOSTRBE(X) - 16	2		"Big-endian"	X

6

?

6.1

No data for publication –

Error on binding variable with name %s [%s] –

Error on items formation (%s) –

Unable to connect to %s. (%s) –

Unable to disconnect from %s. (%s) –

(,).

support@aggsoft.ru.

"%s"