Beleelever		
Boleslavov	a 4 709 00 Ostrava 9 teinax: 069/662 70 97 e-mail: mercos(	ymercos.cz
MANUAL FOR CPU CONTROLLED PROCESS METER WITH <u>SUMARIZATION</u> <b>DMP 04</b>		
Α.	Basic preview of menu addresses and SUB-addresses	
		page no. 1-2
В.	Detail description of each address function	
		page no. 3-6
C.	Detail description of buttons usage	
		page no. 7-8

## Basic preview of menu addresses and SUB-addresses

DMP04

00The point when the integration starts0001from zero 111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <t< th=""><th>ADDRESS</th><th>DESCRIPTION</th><th>SUB-ADDRESSES</th></t<>	ADDRESS	DESCRIPTION	SUB-ADDRESSES
00       The point when the integration starts       0 from zero         1 from the limit with signal below       2 from the limit with signal below         01       Selection of input signal       0 0 - 20 mA DC         1 4 - 20 mA DC       2 0 - 10 V DC         3 user defined       3 user defined         02       SCALE: pre-set the end of scale on display       applies for 0.1.2 selections on A_01         03       SCALE: pre-set the end of scale on display       applies for 0.1.2 selections on A_01         04       SUMARIZATION CONSTANT assignment of constant - how many units of flow rate (2) equal to 1 DIGIT of SUM (∑) on the display       0 SK = 1 : 1 digit ∑ = 1 unit.         1 SK = 100 : 1 digit ∑ = 100 unit       2 SK = 0.01 : 1 digit ∑ = 0.00 unit       3 SK = 0.01 : 1 digit ∑ = 0.00 unit         3 SK = 0.01 : 1 digit ∑ = 0.01 unit       5 SK = 0.01 : 1 digit ∑ = 0.01 unit       5 SK = 0.01 : 1 digit ∑ = 0.01 unit         6       show the NUMBER OF SUM OVERFLOW       more: access via password A_25         NOTICE:         If an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal       applies only for selection 3 on A_02         09       final point of SCALE of user input signal       applies only for selection 3 on A_24			
$ \begin{array}{ c c c c c c } \hline 1 & from the limit with signal below $2$ from the limit wout signal below $2$ 0 - 20 mA DC $1$ 4 - 20 mA DC $2$ 0 - 10 V DC $3$ user defined $2$ 0 - 10 V DC $3$ user defined $3$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selections on A,01 $max scale range: ./+ 29 999 digits $4$ applies for 0,1,2 selection $1$ digit $2$ = 10 unit $1$ SK = 10: 1 digit $2$ = 100 un $3$ SK = 10: 1 digit $2$ = 100 un $3$ SK = 100: 1 digit $2$ = 100 un $3$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ = 0.01 un $6$ SK = 0.01: 1 digit $2$ 01 the applies only fo$	00	The point when the integration starts	0 from zero
01       Selection of input signal       0 0 - 20 mA DC         1 4 - 20 mA DC       2 0 - 10 V DC         3 user defined       3 user defined         02       SCALE: pre-set the beginning of scale on display       applies for 0,1,2 selections on A, 01 max scale range: ./+ 29 999 digits         03       SCALE: pre-set the end of scale on display       applies for 0,1,2 selections on A, 01 max scale range: ./+ 29 999 digits         04       SUMARIZATION CONSTANT assignment of constant - how many units of flow rate (Ø) equal to 1 DIGIT of SUM (Σ) on the display       0 SK = 1 : 1 digit Σ = 10 unit         1 SK = 100 : 1 digit Σ = 100 unit       3 SK = 100 : 1 digit Σ = 100 unit         2 SK = 0.01 : 1 digit Σ = 0.01 unit       5 SK = 0.01 : 1 digit Σ = 0.01 unit         3 SK = 0.01 : 1 digit Σ = 0.01 unit       5 SK = 0.01 : 1 digit Σ = 0.01 unit         6 SK = 0.01 : 1 digit Σ = 0.01 unit       5 SK = 0.01 : 1 digit Σ = 0.01 unit         7       SUM and OVERFLOW reset       more: access via password A_25         NOTICE: if an user defined input is selected only user defined output can be selected!!!       08         18       1st point of SCALE of user input signal       applies only for selection 3 on A_24         10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO			1 from the limit with signal below
01       Selection of input signal       0 0 - 20 mA DC         1 4 - 20 mA DC         2 0 - 10 V DC         3 user defined         02       SCALE: pre-set the beginning of scale on display         03       SCALE: pre-set the end of scale on display         04       SUMARIZATION CONSTANT         assignment of constant - how many units of flow rate (Ø) equal to 1 DIGIT of SUM (Σ) on the display       0 SK = 1 : 1 digit Σ = 10 unit         1 SK = 100 : 1 digit Σ = 100 unit       2 SK = 100 : 1 digit Σ = 100 unit         2 SK = 100 : 1 digit Σ = 100 unit       3 SK = 100 : 1 digit Σ = 100 unit         3 SK = 100 : 1 digit Σ = 0.01 unit       3 SK = 100 : 1 digit Σ = 0.01 unit         4 SK = 0.1 : 1 digit Σ = 0.01 unit       5 SK = 0.01 : 1 digit Σ = 0.01 unit         5 SK = 0.01 : 1 digit Σ = 0.01 unit       6 SK = 0.01 : 1 digit Σ = 0.01 unit         6 Sk = 0.01 : 1 digit Σ = 0.01 unit       5 SK = 0.01 : 1 digit Σ = 0.01 unit         7 SUM and OVERFLOW reset       more: access via password A_25         NOTICE:       if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal       applies only for selection 3 on A_24         10       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24			2 from the limit w/out signal below
01       Selection of input signal       00-20 mA DC         14-20 mA DC       20-10 V DC         3 user defined       applies for 0.1,2 selections on A_01         03       SCALE: pre-set the end of scale on display       max scale range: -/+ 29 999 digits         05       DECIMAL POINT      SK = 1: 1 digit ∑ = 1 unit.         1SK = 10: 1 digit ∑ = 10 unit      SK = 10: 1 digit ∑ = 10 unit         (∅) equal to 1 DIGIT of SUM (∑) on the display       0SK = 1: 1 digit ∑ = 100 unit         2SK = 100: 1 digit ∑ = 0.01 unit       5SK = 100: 1 digit ∑ = 0.01 unit         3SK = 100: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         5SK = 0.01: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         6SK = 0.01: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         6SK = 0.01: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         7SK = 0.01: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         8SK = 0.01: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         9SK = 0.01: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         10SK = 10: 1 digit ∑ = 0.01 unit       5SK = 0.01: 1 digit ∑ = 0.01 unit         11OK defined input is selected only user defined output can be selected!!! <td></td> <td></td> <td></td>			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	01	Selection of input signal	0 0 - 20 mA DC
$\frac{2 \dots 0 - 10 \vee DC}{3 \dots user defined}$ 02 SCALE: pre-set the beginning of scale on display applies for 0,1,2 selections on A_01 max scale range: -/+ 29 999 digits SCALE: pre-set the end of scale on display of the scale range: -/+ 29 999 digits SCALE: pre-set the end of scale on display of the scale range: -/+ 29 999 digits SCALE: pre-set the onto scale on display of the scale range: -/+ 29 999 digits SCALE: pre-set the onto scale on display of the scale range: -/+ 29 999 digits SCALE: pre-set the optical decimal point for SUM (\$\begin{smallmatrix}{llllllllllllllllllllllllllllllllllll			1 4 - 20 mA DC
3			2 0 - 10 V DC
02SCALE: pre-set the beginning of scale on display applies for 0,1,2 selections on A_01 max scale range: -/+ 29 999 digits03SCALE: pre-set the end of scale on displaymax scale range: -/+ 29 999 digits04SUMARIZATION CONSTANT assignment of constant - how many units of flow rate 			3 user defined
03SCALE: pre-set the end of scale on displaymax scale range: -/+ 29 999 digits05DECIMAL POINT04SUMARIZATION CONSTANT assignment of constant - how many units of flow rate ( $\varnothing$ ) equal to 1 DIGIT of SUM ( $\Sigma$ ) on the display0 SK = 1: 1 digit $\Sigma$ = 10 unit 2 SK = 10: 1 digit $\Sigma$ = 100 un 3 SK = 10: 1 digit $\Sigma$ = 100 un 3 SK = 100: 1 digit $\Sigma$ = 100 un 4 SK = 0.1: 1 digit $\Sigma$ = 100 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 6 SK = 0.01: 1 digit $\Sigma$ = 0.01 un 7 applies only for selection 3 on $A_{-}$ 0 7 applies only for selection 3 on $A_{-}$ 20 7 units / secs (eg. Litres / secs) 7 units / hours (eg. ti	02	SCALE: pre-set the beginning of scale on display	applies for 0,1,2 selections on A_01
05DECIMAL POINT04SUMARIZATION CONSTANT assignment of constant - how many units of flow rate $(2)$ equal to 1 DIGIT of SUM ( $\Sigma$ ) on the display0 SK = 1 : 1 digit $\Sigma$ = 10 unit 2 SK = 10 : 1 digit $\Sigma$ = 100 uni 2 SK = 100 : 1 digit $\Sigma$ = 100 uni 3 SK= 1000 : 1 digit $\Sigma$ = 100 uni 4 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 5 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK= 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK= 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 7 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 6 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 7 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 7 SK = 0.01 : 1 digit $\Sigma$ = 0.01 uni 9 SK = 0.01 : 1 digit $\Sigma$ 06show the NUMBER OF SUM OVERFLOW 9more: access via password A_2510ANALOG OUTPUT: pre-set the beginning of AO 9 applies only for selection 3 on A_2411ANALOG OUTPUT: pre-set the end of AO 9 applies only	03	SCALE: pre-set the end of scale on display	max scale range: -/+ 29 999 digits
05       DECIMAL POINT         04       SUMARIZATION CONSTANT assignment of constant - how many units of flow rate (Ø) equal to 1 DIGIT of SUM (Σ) on the display       0 SK = 1 : 1 digit Σ = 1 unit. 1 SK = 10 : 1 digit Σ = 10 unit 2 SK = 100 : 1 digit Σ = 100 unit 3 SK = 100 : 1 digit Σ = 100 unit 3 SK = 100 : 1 digit Σ = 100 unit 4 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.001 unit 6 SK = 0.01 : 1 digit Σ = 0.001 unit 6 SK = 0.01 : 1 digit Σ = 0.001 unit 6 SK = 0.01 : 1 digit Σ = 0.001 unit 6 SK = 0.01 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 6 SK = 0.001 : 1 digit Σ = 0.001 unit 7 SUM and OVERFLOW reset         06       show the NUMBER OF SUM OVERFLOW       more: access via password A_25         07       SUM and OVERFLOW reset       more: access via password A_25         NOTICE:       if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal       applies only for selection 3 on A_0         09       final point of SCALE of user input signal       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24			
04       SUMARIZATION CONSTANT assignment of constant - how many units of flow rate (Ø) equal to 1 DIGIT of SUM (Σ) on the display       0 SK = 1 : 1 digit Σ = 10 unit         1 SK = 100 : 1 digit Σ = 100 unit       2 SK = 100 : 1 digit Σ = 100 unit         2 SK = 100 : 1 digit Σ = 100 unit       3 SK = 100 : 1 digit Σ = 100 unit         3 SK = 100 : 1 digit Σ = 100 unit       3 SK = 100 : 1 digit Σ = 100 unit         4 SK = 0.01 : 1 digit Σ = 0.01 unit       5 SK = 0.01 : 1 digit Σ = 0.01 unit         6       show the NUMBER OF SUM OVERFLOW       0         07       SUM and OVERFLOW reset       more: access via password A_25         NOTICE: if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal       applies only for selection 3 on A_0         09       final point of SCALE of user input signal       applies only for selection 3 on A_0         10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM       0 units / secs (eg. litres / secs)         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the time scale for sumarization	05	DECIMAL POINT	
04       SUMARIZATION CONSTANT assignment of constant - how many units of flow rate (Ø) equal to 1 DIGIT of SUM (Σ) on the display       0 SK = 1 : 1 digit Σ = 10 unit 2 SK = 100 : 1 digit Σ = 100 unit 2 SK = 100 : 1 digit Σ = 100 unit 3 SK = 100 : 1 digit Σ = 100 unit 3 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 6 SK = 0.01 : 1 digit Σ = 0.01 unit 7 SK = 0.01 : 1 digit Σ = 0.01 unit 7 units / secs via password A_25         08       1st point of SCALE of user input signal 9 final point of SCALE of user input signal 10 ANALOG OUTPUT: pre-set the beginning of AO 10 ANALOG OUTPUT: pre-set the end of AO 10 ANALOG OUTPUT: pre-set the end of AO 10 applies only for selection 3 on A_24 11 ANALOG OUTPUT: pre-set the end of AO 11 units / secs (eg. litres / secs) 1 units / mins (eg. litres / secs) 1 units / mins (eg. litres / secs) 1 units / hours (eg. t/ hours)			
$\frac{\text{assignment of constant - how many units of how rate}{(\emptyset) equal to 1 DIGIT of SUM (\Sigma) on the display} \begin{cases} 1 \dots SK = 10 : 1 \text{ digit } \Sigma = 10 \text{ unit} \\ 2 \dots SK = 100 : 1 \text{ digit } \Sigma = 100 \text{ un} \\ 3 \dots SK = 100 : 1 \text{ digit } \Sigma = 100 \text{ un} \\ 3 \dots SK = 100 : 1 \text{ digit } \Sigma = 100 \text{ un} \\ 3 \dots SK = 100 : 1 \text{ digit } \Sigma = 100 \text{ un} \\ 4 \dots SK = 0.1 : 1 \text{ digit } \Sigma = 0.1 \text{ un} \\ 5 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.01 \text{ un} \\ 6 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.01 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un} \\ 6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001  digi$	04	SUMARIZATION CONSTANT	0 SK = 1 : 1 digit $\Sigma$ = 1 unit. $\emptyset$
$\frac{(c)}{c} = \frac{1}{c} = $		assignment of constant - now many units of flow rate $(\emptyset)$ equal to 1 DIGIT of SUM ( $\Sigma$ ) on the display	1 SK = 10 : 1 digit ∑= 10 unit.∅
$\frac{3 \dots SK=1000 : 1 \text{ digit } \Sigma=1000 \text{ un}}{4 \dots SK=0.1 : 1 \text{ digit } \Sigma=0.1 \text{ un}}{5 \dots SK=0.01 : 1 \text{ digit } \Sigma=0.1 \text{ un}}{6 \dots SK=0.01 : 1 \text{ digit } \Sigma=0.01 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}}$ $\frac{3 \dots SK=0.01 : 1 \text{ digit } \Sigma=0.1 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.01 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}$ $\frac{3 \dots SK=0.01 : 1 \text{ digit } \Sigma=0.01 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}$ $\frac{3 \dots SK=0.01 : 1 \text{ digit } \Sigma=0.01 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}$ $\frac{3 \dots SK=0.01 : 1 \text{ digit } \Sigma=0.01 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text{ un}}{6 \dots SK=0.001 : 1 \text{ digit } \Sigma=0.001 \text$			2 SK = 100 : 1 digit ∑= 100 unit.Ø
$\frac{4 \dots SK = 0.1 : 1 \text{ digit } \Sigma = 0.1 \text{ un}}{5 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.01 \text{ un}}{6 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.01 \text{ un}}{6 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}}$ $\frac{6 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}$ $\frac{6 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}$ $\frac{6 \dots SK = 0.01 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}$ $\frac{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}$ $\frac{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}$ $\frac{106}{5 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}{6 \dots SK = 0.001 : 1 \text{ digit } \Sigma = 0.001 \text{ un}}$ $\frac{11}{10 \text{ ANALOG OUTPUT: pre-set the beginning of AO}}{10 \text{ ANALOG OUTPUT: pre-set the end of AO}}$ $\frac{12}{11 \text{ ANALOG OUTPUT: pre-set the end of AO}}$ $\frac{12}{11 \text{ pre-set the optical decimal point for SUM}}$ $\frac{13}{12 \text{ pre-set the time scale for sumarization of flow rate}}$ $\frac{0 \dots \text{ units } / \text{ secs } (\text{eg. litres } / \text{ secs})}{1 \dots \text{ units } / \text{ mins } (\text{eg. litres } / \text{ mins})}{2 \dots \text{ units } / \text{ hours } (\text{eg. t } / \text{ hours})}}$			3 SK= 1000 : 1 digit ∑= 1000 unit.Ø
$S = 0.01$ : 1 digit $\Sigma = 0.01$ un $S = 0.01$ : 1 digit $\Sigma = 0.01$ un $G = 0.01$ : 1 digit $\Sigma = 0.01$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $G = 0.01$ : 1 digit $\Sigma = 0.001$ un $O = 0.01$ : 1 digit $\Sigma = 0.001$ un $O = 0.01$ : 1 digit $\Sigma = 0.001$ un $O = 0.01$ : 1 digit $\Sigma = 0.001$ un $O = 0.01$ : 1 digit $\Sigma = 0.001$ un $O = 0.01$ : 1 digit $\Sigma = 0.001$ un $O = 0.01$ : 1 digit $\Sigma = 0.001$ : 1 digit $\Sigma = 0.001$ $O = 0.01$ : 1 digit $S = 0.001$ : 1 digit $\Sigma = 0.001$ $O = 0.01$ : 1 digit $O = 0.001$ $O = 0.01$ : 1 digit $O = 0.001$ $O = 0.01$ : 1 digit $O = 0.001$ $O = 0.01$ : 1 digit $O = 0.001$ $O = 0.01$ : 1 digit $O = 0.001$ $O = 0.01$ : 1 digit $O = 0.001$ $O = 0.01$ : 1 digit $O = 0.001$ $O = 0.01$ $O = 0.001$ <td></td> <td></td> <td>4 SK = 0.1 : 1 digit ∑= 0.1 unit.Ø</td>			4 SK = 0.1 : 1 digit ∑= 0.1 unit.Ø
06       show the NUMBER OF SUM OVERFLOW         07       SUM and OVERFLOW reset         more: access via password A_25         NOTICE: if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal         applies only for selection 3 on A_0         09       final point of SCALE of user input signal         applies only for selection 3 on A_0         10       ANALOG OUTPUT: pre-set the beginning of AO         applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO         applies only for selection 3 on A_24         11       Pre-set the optical decimal point for SUM         12       pre-set the optical decimal point for SUM         13       Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1 units / hours (eg. t / hours)       2 units / hours (eg. t / hours)			5 SK = 0.01 : 1 digit $\Sigma$ = 0.01 unit.Ø
06       show the NUMBER OF SUM OVERFLOW         07       SUM and OVERFLOW reset         more: access via password A_25         NOTICE: if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal         applies only for selection 3 on A_0         09       final point of SCALE of user input signal         applies only for selection 3 on A_0         10       ANALOG OUTPUT: pre-set the beginning of AO         applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO         applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO         applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM         13       Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1       units / hours (eg. t/ hours)			6 SK= 0.001 1 digit $\Sigma$ = 0.001 unit Ø
07       SUM and OVERFLOW reset       more: access via password A_25         NOTICE: if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal       applies only for selection 3 on A_0         09       final point of SCALE of user input signal       applies only for selection 3 on A_0         10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM         Implies only for selection 3 on A_24         13       Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1       units / mins (eg. litres / mins)       2 units / hours (eg. t / hours)	06	show the NUMBER OF SUM OVERELOW	
NOTICE:       if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal       applies only for selection 3 on A_0         09       final point of SCALE of user input signal       applies only for selection 3 on A_0         10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM       Image: second s	07	SUM and OVERELOW reset	more: access via password A 25
NOTICE: if an user defined input is selected only user defined output can be selected!!!         08       1st point of SCALE of user input signal       applies only for selection 3 on A_0         09       final point of SCALE of user input signal       applies only for selection 3 on A_0         10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM       Image: second se	01		
08       Ist point of SCALE of user input signal       applies only for selection 3 on A_0         09       final point of SCALE of user input signal       applies only for selection 3 on A_0         10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM       applies only for selection 3 on A_24         13       Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1       units / mins (eg. litres / mins)       2 units / hours (eg. t / hours)	NOTICE	t if an user defined input is selected only user define	ed output can be selected!!!
10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM	08		applies only for selection 3 on A_01
10       ANALOG OUTPUT: pre-set the beginning of AO       applies only for selection 3 on A_24         11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection 3 on A_24         12       pre-set the optical decimal point for SUM       Image: set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         13       Pre-set the time scale for sumarization of flow rate       0 units / mins (eg. litres / secs)         1 units / mins (eg. litres / mins)       2 units / hours (eg. t / hours)	09		applies only for selection 3 on A_01
11       ANALOG OUTPUT: pre-set the end of AO       applies only for selection s on A_24         12       pre-set the optical decimal point for SUM         13       Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1 units / mins (eg. litres / mins)       2 units / hours (eg. t / hours)	10	ANALOG OUTPUT: pre-set the end of AO	applies only for selection 3 on A_24
12       pre-set the optical decimal point for SUM         13       Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1 units / mins (eg. litres / mins)       2 units / hours (eg. t / hours)	11	ANALOG OUTPUT: pre-set the end of AO	applies only for selection 3 on A_24
12       pre-set the optical decimal point for SOM         13       Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1 units / mins (eg. litres / mins)       2 units / hours (eg. t / hours)	10	pro act the <b>ention</b> desimal point for <b>SUM</b>	Γ
<b>13</b> Pre-set the time scale for sumarization of flow rate       0 units / secs (eg. litres / secs)         1 units / mins (eg. litres / mins)         2 units / hours (eg. t / hours)	12	pre-set the optical decimal point for SOM	
1        units       / mins (eg. litres / mins)         2        units / hours (eg. t / hours)	13	Pre-set the time scale for sumarization of flow rate	0 units / secs (eq. litres / secs)
2 units / hours (eg. t / hours)			1 units / mins (eq. litres / mins)
			2 units / hours (og. t / hours)

## Basic preview of menu addresses and SUB-addresses

DMP04

ADDRESS	DESCRIPTION	SUBADDRESSES
14	assignment of LIMIT L1	0 limit L1 is switching from signal X
		1 limit L1 is switching from SUM
15	First limit (L1) numeral settings	notice: in full range of scale
16	First limit HYSTERESIS numeral settings notice: in full range of scale	if A_14 is pre-set to 1 there is no settings and on display will appear " <b>OFF</b> "
17	First limit HYSTERESIS timing	notice: from 0,0 s to 299,9 s step: 0,1s
18	SELECT function of output relay Re1	0 indirect
	/ direct: relay closes, indirect: relay opens/	1 direct
19	assignment of LIMIT L2	0 limit L2 is switching from signal X
		1 limit L2 is switching from SUM
20	Second limit (L2) numeral settings	notice: in full range of scale
21	Second limit HYSTERESIS numeral settings notice: in full range of scale	if A_14 is pre-set to 1 there is no settings and on display will appear " <b>OFF</b> "
22	Second limit HYSTERESIS timing	notice: from 0,0 s to 299,9 s step: 0,1s
23	SELECT function of output relay Re2	0 indirect
	/direct: relay closes, indirect: relay opens/	1 direct
24	Output signal SELECTION	0 0 - 20 mA DC
		1 4 - 20 mA DC
		2 0 - 10 VDC
		3 user defined output (I, U)
25	The way of reset - SELECTION	0 on address A 07 only (pass_protect.)
20		1 from main display "" or A 07
NOTICE		
NOTICE:		

ADDRESS	DESCRIPTION OF EACH ADDRESS FUNCTION		
00	<ul> <li>The point when the integration starts (PWIS):         <ul> <li>we can choose, how the integration will start together with the PWIS</li> <li>the PWIS is in units of input signal</li> <li>ex: flow rate 100.0 litres / s</li></ul></li></ul>		
	This function is used to <b>select type of input signal</b> . - user can choose from typical type of inputs : 0-20 mA , 4-20 mA , 0-10 VDC		
01	In case of non-typical input , user can choose <b>user defined input</b> . Device let user to choose from these ranges of input signal: - current input: 0 - 22 mA / eg. setup current input: 2 - 12 mA DC/ - voltage input: 0 - 11 VDC / eg. setup voltage input: 0,5 - 4,9 VDC /		
02	<ul> <li>on this adress we set value of scale beginning , that we want equal to zero value of analogue input</li> <li>eg.: input signal is represented by height 0 - 100,0 l/s. On this adress we setup the value of scale beginning to 0,0 l/s.</li> </ul>		
03	<ul> <li>Setup END of SCALE on display</li> <li>on this adress we set value of scale end , that we want equal to max. value of anologue input</li> <li>eg.: input signal is represented by height 0 - 100,0 l/s. On this adress we setup the value of scale end to 100,0 l/s .</li> </ul>		
05	<ul> <li>DECIMAL POINT setup (DP)</li> <li>the selection of position of decimal point is situated on adress A_05</li> <li>the measured value, limits, hysteresis have the same position of DP (from A_05).</li> <li>eg. input signal is represented by height 0 - 4,000 m. On this adress we setup the decimal point here: x x x_x x x</li> </ul>		
04	<ul> <li>SUMARIZATION CONSTANT (SC): means how many unit(s) per (hours,mins,secs dependes on A_13) is equal to incremantation SUM by one.</li> <li>ex.</li> <li>we have flow rate 1 litre per second (A_13 is 0) and SC is 10 (A_04 is 1). SUM is resetted and equal to zero. After 10 secconds the SUM will be incremented by 1 and will be 1. After next 10 seconds will be SUM equal to 2 and so on.</li> </ul>		
	we have flow rate <b>100 litres per second</b> (A_13 is <b>0</b> ), we want to sumarize with precision on 1st decimal place. On address A_12 will be <b>"xxxxx . x"</b> and SC (A_04) will be <b>4 (0.1)</b> . Now after one second will be <b>SUM</b> incremented by <b>1000</b> because of decimal point (A_12) will be <b>SUM</b> displayed as <b>100 . 0</b> . Precision on the 2nd decimal place A_12 <b>"xxxx . xx"</b> and SC (A_04) will be <b>5 (0.01)</b> . etc		

# Detail description of each address function

DMP04

-

ADDRESS	DESCRIPTION OF EACH ADDRESS FUNCTION		
06	<ul> <li>show the NUMBER OF SUM OVERFLOW</li> <li>- if the SUM is bigger than 999 999, OVERFLOW counter is incremented by 1 and SUM is decremented by 999 999 to provide correct displaying of SUM on the digits display. On this address we can view the numbers of OVERFLOWs.</li> </ul>		
07	SUM and OVERFLOW reset: On enter to this address "" appears on the display. We press enter button and "ANO NE" appears on display. ANO = YES ; NE = NO . Choose ANO to reset or NE to exit w/out reset. If you choose ANO and press enter , message "hotouo" appears (ESC to confirm message). If you chose "NE" you will be returned to the menu.		
08	Setup <b>FIRST POINT</b> of user defined input signal: - we convey input signal to the input terms and set the value shown on the display which is equal to this input signal - eg.: input signal 12 mA is equal to 2,000 m - if the input signal falls under 12 mA, device automatically calculate the value on display, it means that if the input signal will be 4 mA on the display will be shown value: 0,000 m / if you will setup 0 - 4,000 m equal to input signal 4 - 20 mA/		
09	Setup <b>SECOND POINT</b> of user defined input signal: - we convey input signal to the input terms and set the value shown on the display which is equal to this input signal - eg.: input signal 18 mA is equal to 3,500 m - if the input signal rises over 18 mA, device automatically calculate the value on display, it means that if the input signal will be 20 mA on the display will be shown value: 4,000 m / if you will setup 0 - 4,000 m equal to input signal 4 - 20 mA/		
10	On this adress we setup the <u>beginning</u> of user defined analogue output - it is necessary to set the value 3 on adress A_24 ( switch to the user defined output ) - we convey to the input terms signal which is equal to the beginning of analog. output - we connect multimeter to the output terms (AO) and on adress A_10 we setup the value of AO ( by changing value on A_10 ) - eg. input signal will be 6mA and the output signal will be 2mA		
11	On this adress we setup the <u>end</u> of user defined analogue output - it is necessary to set the value 3 on adress A_24 ( switch to the user defined output ) - we convey to the input terms signal which is equal to the end of analog. output - we connect multimeter to the output terms (AO) and on adress A_11 we setup the value of AO ( by changing value on A_11 ) - eg. input signal will be 12mA and the output signal will be 20mA		
12	Pre-set the <b>optical</b> decimal point for <b>SUM</b> . Notice that, <b>SUM</b> is not affected by this decimal point. It is only for optical adjustment of the decimal places.		

# Detail description of each address function

ADDRESS	DESCRIPTION OF EACH ADDRESS FUNCTION
13	Pre-set the time scale for sumarization of flow rate: - units per second , units per minutes and units per hours .
14	<ul> <li>Assign of limit L1:</li> <li>this address provides user assign limit L1 to : <u>input signal</u> "x" or <u>integrated signal</u> "y"</li> <li>notice: decimal point (DP) from address A_05 or A_12 is used for limits due to this address eg. if you assign L1 to "y" L1 will use DP from A_12 or to "x" L1 will use DP from A_05</li> </ul>
15	<ul> <li>First limit (L1) numerical setting</li> <li>when the measured value reach the L1,relay RE1 will open/close(depends on value on A_18)</li> <li>the value of L1 could be set in full range of scale (max. +/- 29 999)</li> <li>the limit must be setuped according to the decimal point ( see in EG. )</li> <li>eg. the scale is 0,000 - 4,000 m: so the limit L1 must be 0,500 m ( xxx , xxx ) not 50,000 or 5,000 ( of course if you want to setup the value of L1 as is written , you can )</li> </ul>
16	<ul> <li>First limit HYSTERESIS (dL1) numerical setting:</li> <li>this adress provides first limit HYSTERESIS numerical setting</li> <li>the value of dL1 could be set in full range of scale (max. +/- 29 999)</li> <li>the limit must be setuped according to the decimal point (see in point 15)</li> <li>the value of dL1 is symetric in both direction (eg. L1=100; dL1=10; first point of L1 will be 90 and second point will be 110)</li> </ul>
17	<ul> <li>First limit HYSTERESIS timing: <u>dtL1</u></li> <li>this adress provides first limit HYSTERESIS timing</li> <li>the value od dtL1 could be set from <u>0</u> to <u>299.9 s</u> (step: 0.1 s)</li> <li>description: if the input signal reach the value of L1, relay closes/opens (see in point 18) after the time of dtL1 count down. (from 0s to 299,9s)</li> <li>if the input signal overloads the value of L1, dtL1 count down is activated. If the input signal falls under the value of L1 during the dtL1 count down is timing, the relay Re1 will not be activated. The dtL1 count down timing is reseted.</li> </ul>
18	Selection of function RE1 when the measured value reach limit L1 : - direct function: when relay <u>Re1</u> reach L1 <u>opens</u> /the hook contact of RE1 is activated/ - indirect function : when relay <u>Re1</u> reach L1 <u>closes</u> /the unhook contact of RE1 is activated/
NOTICE:	

# Detail description of each address function

ADDRESS	DESCRIPTION OF EACH ADDRESS FUNCTION
19	<ul> <li>Assign of limit L2:</li> <li>this address provides user assign limit L2 to : input signal "x" or integrated signal "y"</li> <li>notice: decimal point (DP) from address A_05 or A_12 is used for limits due to this address eg. if you assign L1 to "y" L1 will use DP from A_12 or to "x" L1 will use DP from A_05</li> </ul>
20	Second limit (L2) numerical setting: - when the measured value reach the L2,relay RE2 will open/close(depends on value on A_18) - the value of L2 could be set in full range of scale (max. +/- 29 999) - the limit must be setuped according to the decimal point ( see in EG. ) - eg. the scale is 0,000 - 4,000 m: so the limit L2 must be 0,500 m ( xxx , xxx ) not 50,000 or 5,000 ( of course if you want to setup the value of L1 as is written , you can )
21	<ul> <li>Second limit HYSTERESIS (dL2) numerical setting:</li> <li>this adress provides first limit HYSTERESIS numerical setting</li> <li>the value of dL2 could be set in full range of scale (max. +/- 29 999)</li> <li>the limit must be setuped according to the decimal point (see in point 20)</li> <li>the value of dL2 is symetric in both direction (eg. L2=100; dL2=10; first point of L2 will be 90 and second point will be 110)</li> </ul>
22	<ul> <li>Second limit HYSTERESIS timing: <u>dtL2</u></li> <li>this adress provides first limit HYSTERESIS timing</li> <li>the value of dtL2 could be set from 0 to <u>299.9 s</u> (step: 0.1 s)</li> <li>description: if the input signal reach the value of L2, relay closes/opens (see in point 23) after the time of dtL2 count down. (from 0s to 299,9s)</li> <li>if the input signal overloads the value of L2, dtL2 count down is activated. If the input signal falls under the value of L2 during the dtL2 count down is timing, the relay Re2 will not be activated. The dtL2 count down timing is reseted.</li> </ul>
23	Selection of function RE2 when the measured value reach limit L2 : - <u>direct function</u> : when relay <u>Re2</u> reach L2 <u>opens</u> /the hook contact of RE2 is activated/ - <u>indirect function</u> : when relay <u>Re2</u> reach L2 <u>closes</u> /the unhook contact of RE2 is activated/
24	On this adress we can choose the type of output signal: - there are typical types of output signal: 0-20 mA, 4-20 mA, 0-10 VDC - and one type is user defined in range 022 mA & 011V DC NOTICE: combination of standart input and user defined output is possible
	The way of reset - SELECTION
25	<ul> <li>password protected from A_07 means that you have to access menu to reset SUM and OVERFLOW counter.</li> <li>from main display - you scroll (*) in main display till "" appears. Then you press Enter to RESET SUM and OVERFLOW counter. No need to access menu,but not protected by pass.</li> </ul>
NOTICE:	(*) more in <b>chapter C</b> , button number one.



BUTTON	SYMBOL	DESCRIPTION OF EACH BUTTON FUNCTION
	I	
1	X SUMA RESET	<ul> <li>1.function: in measuring state this button provides cycle showing of X, SUM, RESET. When is button pressed the value on display is shown in this direction: <ul> <li>measured input value X :automatically shown by device power-on</li> <li>SUM : sumarized value</li> <li>RESET: appears " " and by buton no.3 "ENTER" will be RESET SUM and OVERFLOW. This item will not be displayed if the A_25 is 0 !</li> </ul> </li> <li>notice if RESET is displayed in main menu (A_25 is 1) and you scroll to RESET "" appears on display the devcie will automatically return to displayin measured value.</li> </ul>
		<ul> <li>2. function: in programming state this button provides increasing the value on the selected digit of display.(xxx(x)xx highlited 'x' is blinking and butt. ^ increase value):</li> <li>to setup numeral data in basic adresses : A_01 - A_25 ( see notice bellow )</li> <li>to setup the selection in SUB-ADDRESSES</li> <li>to setup all numeral values ( eg. L1, L2 etc )</li> </ul>
-		
2	<b>+</b>	<ul> <li>1. function: in programming state this button provides switching the highlighted (blinking) digit on display (eg. xxx(x)xx, &lt;-&gt; , xxxx(x)x , &lt;-&gt; , xxxx(x) , &lt;-&gt; (x)xxxxx )</li> <li>valid only for setup in adresses where is the numeral value setuped.</li> <li>not valid for setting SUB-ADDRESSES switches / "program switches" / (eg. A_00, A_25)</li> </ul>
	▼	<b>2. function</b> : in <u>menu</u> this button provides decreasing numeral value of address A_01 - A_25 . ( eg. A_15 button pressed A_14 , Butt Pressed , A_13 )
		<b>notice:</b> if you press the button and the numeral value of address is 0 ( A_00) the next value will be 25 ( A_25 ) -> cycle

BUTTON	SYMBOL	DESCRIPTION OF EACH BUTTON FUNCTION
3 + 4	ENTER + ESC	<ul> <li>1. function: <u>first double press</u> button "ENTER" and "ESC" provides entering to the password protected menu.</li> <li>by pressing ENTER+ESC together, on display apears " 0 0 0 0 " and device is waiting for the password.</li> <li>(if no button pressed in 5 second the device returns back )</li> <li>user password : provides access to the adress A_01 - A_24 ( 'user setup area' )</li> <li>with buttons n.1 and n.2 write the password and then confirm by pressing ENTER button.</li> <li>notice: the password cannot be change so be careful and hide the password from any unauthorized person.</li> </ul>
3	ENTER	<ul> <li>1. function: ENTER provides confirm and saving values <ul> <li>by confirm (pressing ENTER butt) adress (eg. A_10) you enter the programming state</li> <li>now you can set the value or exit by pressing ESC button.</li> <li>by next pressing ENTER the setuped value is saved into EEPROM memory and on display appears message ' hotouo'. Confirm this message by pressing ESC button</li> </ul> </li> </ul>
4	ESC	<b>1. function</b> : <b>ESC</b> provides escaping the programing state , menu , etc step by step to the measuring state. ( eg. xxxx(x)x , ESC , A_15 , ESC , measuring state ) <b>Confirm message "hotouo"</b>
NO NOE.		