FC10 - <offline>

"Min/Max for 3 REALs"

Name: **Family:**
Author: Yetkin   **Version:** 0.1
                   Block version: 2
Time stamp Code: 01/01/2022 05:48:27 PM
       Interface: 01/01/2022 03:55:49 AM
Lengths (block/logic/data): 00282   00156   00000

Name	Data Type	Address	Comment
IN		0.0	
fIn1	Real	0.0	Number 1
fIn2	Real	4.0	Number 2
fIn3	Real	8.0	Number 3
OUT		0.0	
fMin	Real	12.0	Min number
fMax	Real	16.0	Max number
IN_OUT		0.0	
TEMP		0.0	
RETURN		0.0	
RET_VAL		0.0	

Block: FC10

Network: 1   Min and max values of three variables

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This block determines the max. and the min. value of 3 values.

Signal description:
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fIn1,fIn2,fIn3: Input values (32 bit Real) which are to be compared.

fMin:      Minimum value

fMax:      Maximum value

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Network: 2

```
        L     #fIn1  #fIn1              -- Number 1
        L     #fIn2  #fIn2              -- Number 2
        <R
        SPB   L001

        L     #fIn1  #fIn1              -- Number 1
        L     #fIn3  #fIn3              -- Number 3
        <R
        SPB   L002

        L     #fIn1  #fIn1              -- Number 1
        T     #fMax  #fMax              -- Max number

        L     #fIn2  #fIn2              -- Number 2
```

```
      L     #fIn3  #fIn3            -- Number 3
      <R
      SPB   L003

      SPA   L004

L001: L     #fIn2  #fIn2            -- Number 2
      L     #fIn3  #fIn3            -- Number 3
      <R
      SPB   L002

      L     #fIn2  #fIn2            -- Number 2
      T     #fMax  #fMax            -- Max number

      L     #fIn1  #fIn1            -- Number 1
      L     #fIn3  #fIn3            -- Number 3
      <R
      SPA   L005

      SPA   L004

L002: L     #fIn3  #fIn3            -- Number 3
      T     #fMax  #fMax            -- Max number

      L     #fIn1  #fIn1            -- Number 1
      L     #fIn2  #fIn2            -- Number 2
      <R
      SPB   L005

      SPA   L003

L005: L     #fIn1  #fIn1            -- Number 1
      T     #fMin  #fMin            -- Min number
      SPA   L006

L003: L     #fIn2  #fIn2            -- Number 2
      T     #fMin  #fMin            -- Min number
      SPA   L006

L004: L     #fIn3  #fIn3            -- Number 3
      T     #fMin  #fMin            -- Min number

L006: NOP   0
```