

File created: 15-Aug-90 16:20:47 {DSK}<usr>local>lde>SOURCES>loops>LIBRARY>GAUGEDIGISCALE.;2

changes to: (VARS GAUGEDIGISCALECOMS)

previous date: 23-Feb-88 23:28:33 {DSK}<usr>local>lde>SOURCES>loops>LIBRARY>GAUGEDIGISCALE.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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```
(RPAQQ GAUGEDIGISCALECOMS ((DECLARE%: DONTCOPY (PROP MAKEFILE-ENVIRONMENT GAUGEDIGISCALE))
                             (FILES (FROM VALUEOF LOOPSLIBRARYDIRECTORY)
                                      GAUGEALPHANUMERICS GAUGESCALES)
                             (CLASSES DigiScale)
                             (METHODS DigiScale.Set DigiScale.SetParameters DigiScale.ShowReading)))

(DECLARE%: DONTCOPY

(PUTPROPS GAUGEDIGISCALE MAKEFILE-ENVIRONMENT (:PACKAGE "IL" :READTABLE "INTERLISP" :BASE 10))
)

(FILESLOAD (FROM VALUEOF LOOPSLIBRARYDIRECTORY)
            GAUGEALPHANUMERICS GAUGESCALES)

(DEFCLASSES DigiScale)

(DEFCLASS DigiScale (MetaClass Class doc "Combines a numeric display with an unlabelled proportional horizontal
                                     scale" Edited%:
                                     (* dbg%: "6-JUN-83 17:55"))
  (Supers HorizontalScale LCDMixin)
  (InstanceVariables (ticks NIL tickLength NIL doc "ticks on the instrument; value is number or NIL;
                                     smallTicks is number between each large tick")
                     (scaleHeight 6 doc "height of scale")
                     (scaleLeft 6 doc "left edge of scale")
                     (height 24 doc "a window high enough for 11 labels")
                     (width 70)
                     (spaceForLCD 30 doc "this is the vertical space required for the LCD in the window. It is
                                     dependent upon the font and is set by SetParameters.")))

(\BatchMethodDefs)

(METH DigiScale Set (reading)
  "Combined method for Set"
  (category (HorizontalScale)))

(METH DigiScale SetParameters NIL "Set parameters for unscaled horizontal gauge combined with LCD on top"
  (category (Internal)))

(METH DigiScale ShowReading NIL "dbg: 9-JUN-83 21:34" (category (HorizontalScale)))

(Method ((DigiScale Set)
  self reading
  "Combined method for Set"
  (_SuperFringe
  self Set reading)
  ; dbg: 10-JUN-83 11:54

[Method ((DigiScale SetParameters)
  self
  "Set parameters for unscaled horizontal gauge combined with LCD on top"
  (PROG ((window (@ window))
        (fontHeight (FONTHEIGHT (@ font)))
        (border titleHeight)
        (_Super)
        (SETQ border (WINDOWPROP window 'BORDER))
        [SETQ titleHeight (PLUS border (COND
                                     ((@ title)
                                      (FONTHEIGHT (DSPFONT NIL WindowTitleDisplayStream)))
                                     (T 0)
                                     ))
        (_@
         spaceForLCD
         (PLUS 3 border fontHeight))
        (_@
         scaleHeight
         (QUOTIENT fontHeight 2))
        (_@
         scaleBottom fontHeight)
        (_@
         height%:,min
         (HEIGHTIFWINDOW (IPLUS (@ scaleBottom)
                                (@ scaleHeight)
                                (COND
                                 ((@ ticks)
                                  (* add 8 to tickLength for extra space on each end of tick.)
```

```

                (PLUS 8 (@ ticks%:,tickLength)))
                (T (QUOTIENT fontHeight 3)))
                (@ spaceForLCD))
            (@ title)))
    (_@
    height
    (MAX (@ height)
    (@ height%:,min)))
    [_@
    readingY
    (IPLUS (@ scaleBottom)
    (@ scaleHeight)
    (COND
    ((@ ticks)
    (PLUS 8 (@ ticks%:,tickLength)))
    (T (QUOTIENT fontHeight 3]
    (* add 8 to tickLength for extra space on each end of tick.)
    (_ self SmallRegion)
    [_@
    width%:,min
    (MAX (@ width%:,min)
    (fetch WIDTH of (@ precision%:,readingRegion]
    (_@
    width
    (MAX (@ width)
    (@ width%:,min]

(Method ((DigiScale ShowReading)
    self)
    "dgb: 9-JUN-83 21:34"
    (_SuperFringe
    self ShowReading))
; dgb: 10-JUN-83 11:54
; Combined method for ShowReading

(\UnbatchMethodDefs)

(PUTPROPS GAUGEDIGISCALE COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1988 1990))

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PROPERTY INDEX

GAUGEDIGISCALE1
