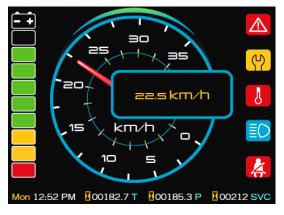


enGage™ VII definition worksheet

This questionnaire is to be used for enGage™ VII applications.
Type of enGage™ VII unit: Enclosed (cased): Module (uncased): System voltage: Isolated CAN: yes or no CAN baud rate: CAN Node ID: Video Input: yes or no Number of Video Input Channels: (2 max; video 1 has priority) Video 1 input switch source: CAN: , Switch Input: , Mirrored or normal: Video 2 input switch source: CAN: , Switch Input: , Mirrored or normal: Analog Inputs - 5 max. (0 - 10k; 0 - 10V) Analog input 1: resistive: or voltage:
Analog input 2: resistive: or voltage: Analog input 3: resistive: or voltage: Analog input 4: resistive: or voltage: Analog input 5: resistive: or voltage: Number of frequency Inputs: (3 max; 10kHz max) Number of switched inputs: (16 max.) Type of application: Brief Description:
Yearly quantities: 1 st year: 2 nd year: 3 rd year: 4 th year:
Define the types of Instruments, Icons, Message Center and Advisories desired.
INSTRUMENTS: AMPS AMPS







Select the number, size, color and types of instruments. The screen layout and number of instruments will dictate the number and location of warning icons.

1st instrument:	(BDI, fuel, pressure, tachometer, speedometer, voits, Amperes, etc.)
Display type:	(bargraph (vertical/horizontal), needle small (quarter/half circle) / large
	horizontal)
Display Scale Minimum / Maximum Va	alues:/
Display Units: MPH, KPH (km/h), RPN	/l, °C, °F, kPa, etc
Input Source:	(Analog Sender # $(1 - 5)$, CPU internal calculation, CAN)
Sender Type:	(Resistance, Voltage, Frequency, CAN)
Sender make & p/n:	<u> </u>
If Speedometer/Tachometer (pulses n	nile/kilometer or pulses per engine revolution):
Sender Minimum / Maximum Values:	<u> </u>
Sender Threshold Transition Values:	
Instrument Icon:	, Low:
Instrument alarms (%) of scale: High:	, Low:
2nd Instrument: Display type:	_ (BDI, fuel, pressure, tachometer, speedometer, Volts, Amperes, etc.) (bargraph (vertical/horizontal), needle small (quarter/half circle) / large
	horizontal)
	alues:
Display Units: MPH, KPH (km/h), RPM	∕l, °C, °F, kPa, etc.
	(Analog Sender # $(1 - 5)$, CPU internal calculation, CAN)
Sender Type:	(Resistance, Voltage, Frequency, CAN)
Sender make & p/n:	<u> </u>
If Speedometer/Tachometer (pulses n	nile/kilometer or pulses per engine revolution):
Sender Minimum / Maximum Values:	
Sender Threshold Transition Values:	
Instrument Icon:	
Instrument alarms (%) of scale: High:	, Low:
	(BDI, fuel, pressure, tachometer, speedometer, Volts, Amperes, etc.)
	(bargraph (vertical/horizontal), needle small (quarter/half circle) / large

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	alues:
Display Units: MPH, KPH (km/h), RPM	∕/и, °С, °F, kРа, etc
Input Source:	(Analog Sender # (1 – 5), CPU internal calculation, CAN)
Sender Type:	(Resistance, Voltage, Frequency, CAN)
Sender make & p/n:	<u>_</u>
If Speedometer/Tachometer (pulses n	nile/kilometer or pulses per engine revolution):
Sender Minimum / Maximum Values:	
Instrument alarms (%) of scale: High:	, Low:
4th Instrument	(BDI, fuel, pressure, tachometer, speedometer, Volts, Amperes, etc.)
	(bargraph (vertical/horizontal), needle small (quarter/half circle) / large
Display type.	
Diaplay Saala Minimum / Mayimum \/	horizontal)
Display Scale Minimum / Maximum va	alues: /
Display Units: MPH, KPH (km/h), RPM	//, °C, °F, KPA, etc
Input Source:	(Analog Sender # $(1-5)$, CPU internal calculation, CAN)
	(Resistance, Voltage, Frequency, CAN)
Sender make & p/n:	
If Speedometer/Tachometer (pulses n	nile/kilometer or pulses per engine revolution):
Sender Minimum / Maximum Values:	<u> </u>
Sender Threshold Transition Values:	
Instrument alarms (%) of scale: High:	, Low:
	(BDI, fuel, pressure, tachometer, speedometer, Volts, Amperes, etc.)
Display type:	(bargraph (vertical/horizontal), needle small (quarter/half circle) / large
Display type.	
Dianley Cools Minimy on / Maying up //	horizontal)
Display Scale Minimum / Maximum V	alues:/
Display Units: MPH, KPH (km/h), RPM	//, °C, °F, KPa, etc
Input Source:	(Analog Sender # $(1 - 5)$, CPU internal calculation, CAN)
Sender Type:	(Resistance, Voltage, Frequency, CAN)
Sender make & p/n:	_
If Speedometer/Tachometer (pulses n	nile/kilometer or pulses per engine revolution):
Sender Minimum / Maximum Values:	
Sender Threshold Transition Values:	
Instrument Icon:	
Instrument alarms (%) of scale: High:	, Low:
MOSFET and Audible Alarms:	
The four MOSFET outputs and audible	e alarm can be used as instrument alarms (see instrument definitions
above).	
MESSAGE CENTER:	

Messages are predefined lines of text stored in the ${\it e7}$ and selected over the CAN bus.

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Text color and blinkification can be selected.

See appendix A for message definitions and blinkification.

selected. Locations of the icons may combinations are possible based on t assistance. SAE J1362 icons are commonochrome bitmap. Contact Curtis when the input to enGage IV sees a pwhen the enGage IV input sees B- or	he number an nsidered stand for assistance positive voltage	d type of instruments selected. C lard. Other, custom icons are poss . Input type "active high" means t e greater than 4V, "active low" me	ontact Curtis for sible. Supply 32x32 pixel hat the icon appears
Icon 1 description:	(SAE	. or Custom), Location:	
Icon 1 description:		Input type (active high/low)	_ Blink (Y/N):
Icon 2 description:	(SAE	_, or Custom), Location:	
Icon 2 description:		Input type (active high/low)	_ Blink (Y/N):
Icon 3 description:	(SAE	_, or Custom), Location:	
Icon 3 description:		Input type (active high/low)	_ Blink (Y/N):
Icon 4 description:	(SAE	, or Custom), Location:	
Icon 4 description:		Input type (active high/low)	_ Blink (Y/N):
Icon 5 description:	(SAE	_, or Custom), Location:	
Input source (CAN, switched):		Input type (active high/low)	_ Blink (Y/N):
Icon 6 description:	(SAE	, or Custom), Location:	
Input source (CAN, switched):		Input type (active high/low)	_ Blink (Y/N):
Icon 7 description:	(SAE	_, or Custom), Location:	
Input source (CAN, switched):		Input type (active high/low)	_ Blink (Y/N):
Icon 8 description:	(SAE	, or Custom), Location:	
Input source (CAN, switched):		Input type (active high/low)	_ Blink (Y/N):
Icon 9 description:	(SAE	_, or Custom), Location:	
Input source (CAN, switched):		Input type (active high/low)	_ Blink (Y/N):
Icon 10 description:	(SAE	, or Custom), Location:	
Input source (CAN, switched):		Input type (active high/low)	_ Blink (Y/N):
Icon 11 description:	(SAE	, or Custom), Location:	
Input source (CAN, switched):		Input type (active high/low)	_ Blink (Y/N):
Icon 12 description:	_ (SAE	, or Custom), Location:	

ICONS: The number of displayable indicator/warning icons is affected by the number and types of instruments

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Input source (CAN, switched):	Inpu	it type (active high/low)	Blink (Y/N):
Icon 13 description:	(SAE, o	r Custom), Location: it type (active high/low)	Blink (Y/N):
Icon 14 description:	(SAE, o	r Custom), Location: it type (active high/low)	Blink (Y/N):
Input source (CAN, switched):	(SAE, o	r Custom), Location: it type (active high/low)	Blink (Y/N):
Input source (CAN, switched):	(SAE, o	r Custom), Location: it type (active high/low)	Blink (Y/N):
More if needed			
MOSFETs: If a MOSFET is to be activated as an incompleted.	nstrument alarm,	then the instrument info	rmation (above) must be
MOSFET outputs can also be used as usage as followers of digital inputs whi the availability of digital inputs. A digitatime. Caution: For non-custom applications	le not controlled but input can be use	by instrument alarms. Med to turn on an icon and	OSFET usage is also limited by d/or a MOSFET at the same
Select the active high/low below only if	the MOSFET has	s a dedicated digital inp	ut source.
MOSFET 1: Source: (D MOSFET 2: Source: (D MOSFET 3: Source: (D	igital input or icor	n # (1-6), Input active hig	gh/low
ADVISORIES (Hour Meter, Maintenan three advisories from three hourmeters		•	======================================
Advisory 1 (bottom left) type:	Sou	urce, A	ctive high/low
Advisory 2 (bottom center) type:	Sou	ırce, A	ctive high/low
Advisories options:			ctive high/low
If hourmeters are selected select if the	y should be: Rese	ettable: Non-i	resettable:
If a time-of-day clock is selected select format: 12hr: 24 hr:			
If a maintenance monitor is selected:			

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Initial maintenance inte Subsequent maintenan	
* For non-custom applications an Advisory Mecommunications.	essage Center (11 characters) requires CANOpen or Serial (SCI)
SPLASH SCREEN: Curtis Logo splash screen (Y/N):	
<u> </u>	nly through Curtis Sales and may require a specification ent. Custom features are subject to additional NRE costs.
Non-standard Icon(s) (Y/N):	(Provide 32x32, or 24x24 pixels (instrument) icons in Black & White MS Paint (.bmp) image).
OEM Logo Splash Screen (Y/N):	image).
CAN (Y/N):(11-bit protocol). CAN Command Protocol: Nodes 2.0, C/	ANopen:, J1939:, Other:
Note: CAN implementation requires the spec	ification of the applicable CAN commands and timing.
PASSWORD: A four-digit password can be used to restrict a	access to the Advanced Settings menu accessible features.
OEM Password (Y/N): Password	rd Definition (numeric):,,,
ADDITIONAL CUSTOM REQUIREMENTS (p	eesee describe):
ADDITIONAL COMMENTS:	