

Move into the future with reliable measurements



NEW

CTRS-CAG011A

CAN/GPS Unit for CTRS-100 Series

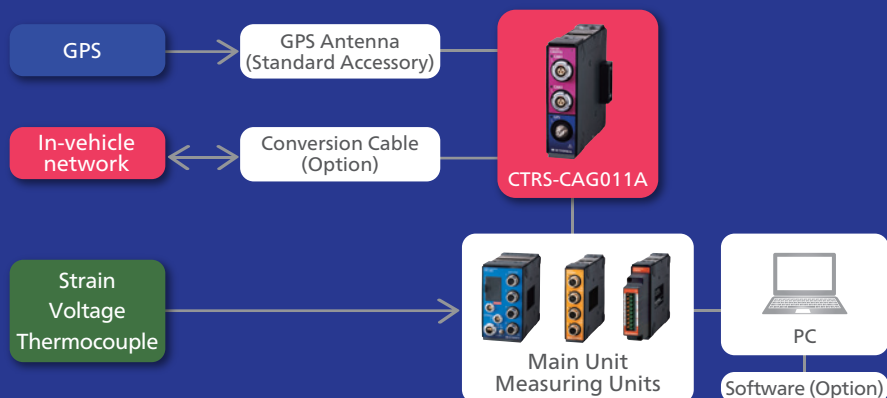
Simultaneously records GPS (position and time information), strain, voltage, temperature, etc.

Interval measurements via time synchronization

Also supports CAN/CAN FD (in-vehicle network information) recording



System Content



Applications



•Vehicle and train driving tests

Simultaneously records speed (vehicle speed) and analog sensor
Simultaneously records the vehicle and ground without cables



•Aircraft flight tests

Simultaneously records longitude, latitude, speed, and azimuth
and analog sensor

*You cannot measure data by using the CAN/GPS unit only.

*We also offer a dedicated CAN/CAN FD CTRS-CAG010A.

Main Specifications

Number of CAN Ports	2
CAN Port Connector	ECB.1B.303 LEMO made (Applicable plug FGB.1B.303.CLAD62Z)
CAN Protocol	ISO/DIS 11898-1 compliant *Support for CAN and CAN FD Frames
Supported Physical Layer	ISO 11898-2 and ISO 11898-5 *Low Speed CAN not supported
Termination Resistor	Implementation (Select ON/OFF)
Communication Speed	1000, 800, 500, 250, 125, 100, 83.3, 62.5, 50, 33.3, 25, 20, 10 kbps
CAN FD Data Bit Rate	5, 4, 2, 1, 0.5 Mbps, OFF *Limited by communication speed.
CAN Recording Mode	Selected CAN ID mode All CAN ID mode *CAN trigger is not available (All CAN ID mode)
Listen Only Mode	Select ON/OFF *CAN data output is not available.
CAN Data Output	Up to 32 messages of arbitrary CAN data can be output at one time.
CAN Data Output Timing	Output at start/ Output at stop/ Interval/ Manual
CAN Trigger	Received CAN messages can be used as trigger source.
CAN Trigger Type	Manual/ Digital/ Analog/ Composite
Other Function	Automatic communication speed survey
Number of GPS Port	1
Recordable GPS Data	Latitude, longitude, number of received satellites, positioning status, time, speed, azimuth, altitude above sea level, geoid height, horizontal accuracy loss rate, position accuracy loss rate, vertical accuracy loss rate, etc. *Saving format: NMEA
GPS Correction Function	CTRS-100A Internal time (Every hour), Sampling clock (At the start of recording)
Time Synchronization Measurement	Set the start time of recording to the time data received by GPS.
GPS Data Update rate	5 times/s
Position Accuracy	2.5 m (CEP) *The left values are for reference only. *CEP is an abbreviation for Circular Error Probability, which means that 50% of the data is contained within the radius of the circle indicated by the number.
Power Consumption	Approx. 0.7 W (When supplying 12 VDC)
Operating Temperature	-10 to 50°C
Operating Humidity	20% to 90% (Non-condensing)
Vibration Resistance	49.0 m/s ² (5 G), 5 to 200 Hz
Shock Resistance	490 m/s ² (50 G), 11 ms or less, half sine wave
Degrees of Protection	IP50 (JIS C 0920/IEC 60529)
Dimensions	26.6 W × 92 H × 94 D mm, not including protrusions or protectors
Weight	Approx. 220 g
Compliance	Directive 2014/53/EU (RED) Directive 2011/65/EU, (EU)2015/863 (10 restricted substances)(RoHS)
Utility Nuts	Size: M4, 6 places

Standard Accessories

Stack-connector cap (female)
Stack-connector cap (male)
GPS antenna (cable length 5 m)
GPS connector cap

Check here for
more information



Optional Accessories

CTRS CAN cable 9-pin male D-sub U-135
GPS Antenna (cable length 5 m) DAM1595-5M

KYOWA ELECTRONIC INSTRUMENTS CO., LTD.

Global Sales Department:
3-5-1, Chofugaoka, Chofu, Tokyo 182-8520 Japan
TEL: +81-42-489-7220 FAX: +81-42-488-1122
E-mail: kyowaoverseas.hp@d1.kyowa-ei.co.jp
Website: www.kyowa-ei.com



Safety Precautions

- Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.
- Do not use in locations subject to significant water, dampness, steam, dust, or flammable gases.
Doing so may lead to fire, electrical shock, or malfunction.

- Specifications and designs are subject to change without notice.
- Please contact us if using the detailed products for special applications.
- Detailed company and product names are the trademarks or registered trademarks of their respective owners.
- The warranty details can be found on the "Product Warranty" attached to the product and on the following website.
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