

# FC EXPO 2020



***HYDROGEN-NX***

LF Self

Reference exhibition model ready for self-fueling of hydrogen

**TATSUNO**

In Innovation, In Reliable Services

# 70 MPa

## High-pressure Hydrogen Dispensers for Fuel Cell Vehicles

- Supports 82 MPa high-pressure fueling
- Compact and stylish design with large displays
- Usable with both on-site and off-site production
- Compatible with the latest international fueling protocols
- Compatible with pre-cooling to -40°C
- Connectable to existing POS terminals

Fill Pressure	87.5 MPa (max)
Measuring Accuracy	± 1.5 %
Measuring Range	0.25 ~ 5.0 Kg/min

### **HYDROGEN-NX** LF & LS

High-class model with highest installation number in Japan

- Choice of nozzle position - front & side.
- Designed for the good visibility of the surroundings.

● One-side filling



● Both-side filling

### **HYDROGEN-NX** M

Dispenser for movable hydrogen stations

- Compact design for easy storing on a truck trailer.
- Designed for easy daily maintenance.
- Easy fueling without climbing the trailer.



### **HYDROGEN-Duo**

Simultaneous fueling with two nozzle is here

- Double nozzle dispenser for the North American market.
- Simultaneous fueling on both side for increased fueling efficiency.
- Design with emphasis on safe self-fueling.



【 ETL Intertek Certified 】



# 35 MPa

## High-pressure Hydrogen Dispensers for Fuel Cell Forklifts

- Designed for 35 MPa
- Compact design for installation in limited spaces

Fill Pressure	35.0 MPa (max)
Measuring Accuracy	±1.5 %
Measuring Range	0.25 ~ 3.0 Kg/min

### HYDROGEN-NX

F

H35

#### Design suitable for limited spaces

- Displays and operation buttons on both sides.
- Usable with remote management systems for real-time monitoring.
- Connectable to existing POS terminals.



### HYDROGEN

FS

H35

#### Simple design for an easy operation

- Basic model without display.
- Internal parts installed outside the dispenser for a compact design.
- Equipped with a flame detector.



### Hydrogen Nozzle for H70

FN-1027



Made by  
**TATSUNO**



IR Receiver / Control box  
【 ETL Intertek Certified 】

- Equipped with Tatsuno-made IR Interface for data transfer.
- Construction with a low risk of leakage.
- Light weight of 1.6 kg, compact size with excellent usability and durability.
- Completed life-cycle test & durability test.
- Explosion-proof certifications. (ATEX, IECEx, NEPSI)





# Coriolis Mass Flowmeter

## ■ Coriolis Mass Flowmeter for Hydrogen (120MPa Class)

- Best for ultra-high pressure measurement
- High accuracy  $\pm 0.5\%$  & Low pressure loss
- High Number of Installations



### Integrated 2-in-1 Model

Model	FM-1135
Features	New Integrated model
Pressure	Max. 120 MPa
Accuracy	$\pm 0.5\%$ (10 to 360kg/h)
Fluid Temp.	-50°C to +85°C
Output	Pulse 2ch, Modbus, Bluetooth
Certifications	ETL (Intertek)
Ex.-proof	Ex d ib IIC4 Gb, Ex(Japan), ATEX, IECEx, NEPSI(China), KOSHA(Korea)



### Separate Model

Model	BA-1025
Features	Separated model
Pressure	Max. 120 MPa
Accuracy	$\pm 0.5\%$ (10 to 360kg/h)
Fluid Temp.	-50°C to +85°C
Output	Pulse 2ch, 4-20mA 2ch, LCD Display
Ex.-proof	Ex d ia IIB+H2, Ex(Japan), ATEX, IECEx, NEPSI(China), KOSHA(Korea)

## ■ Coriolis Mass Flowmeters for CNG/LNG



**ER-1308-C/A**  
Converter for LNG/CNG



**FM-1031-B**  
Detector for Boil off Gas  
(Small Bore)  
Extra cold resistant  
Maximum flow 20 kg/min  
Mass Flow Accuracy  $\pm 0.5\%$



**FM-1031-A**  
Detector for LNG  
(Large Bore)  
Extra cold resistant  
Maximum flow 200 kg/min  
Mass Flow Accuracy  $\pm 0.5\%$



**FM-1026**  
Detector for CNG  
High pressure resistant (Max 31.4MPa)  
Maximum flow 6000 kg/min  
Mass Flow Accuracy  $\pm 0.3\%$



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