FORTRON

FARMING TECHNOLOGY

CATALOG

FORTRON

OUR BRAND IS OUR DNA

FORCE + ELECTRON

We are FORTRON, the harmonizing union of Force and technology represented by the Electron, an invisible particle responsible for the effects of electrical and thermal conductivity in materials.

Through our solutions, we seek the development and excellence of agriculture and all agroecosystems.

Since our inception, we have been at the forefront of this market, developing innovative solutions in precision agriculture, geopositioning, digital farming, and spare parts. With products designed for planting, spraying and harvesting. we stregthen our commitment and dedication to our costumers, suppliers and employees, while striving for an ethical and transparent relationship with them.

We use our expertise to promote the best experience between farmers and technology and aim to create a partnership that is rich in opportunities and focuses on profitability, efficiency and social development, considering that agriculture is one of the most important pillars of global food security.

TIMELINE

| 2015	2016	2017	2018	2019
CAN Seed Sensors	Pulse Seed Sensors	Spray Sensors	F-15 Planting Monitor	Harvest Sensors

FARMING TECHNOLOGY

OUR PURPOSES

Bringing innovative solutions to all food-producing regions.

Strengthening partnerships and expanding our brand.

Always striving for excellence in our solutions.

Offering the best solution for each customer.

Ensuring a culture based on justice, respect for all, and meritocracy.

Our company uses 100% renewable energy.
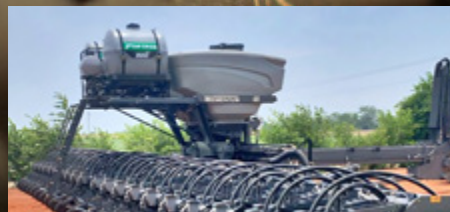
OUR HISTORY

From the start, FORTRON has been synonymous with expertise, integrity, and responsibility in product development and service providing to its customers.

With highly skilled professionals and extensive experience, we work to ensure that farmers achieve the best results, benefiting not only themselves but also society as a whole.

Building and maintaining healthy relationships with our customers is essential, as it is through these that we gain knowledge, join our efforts, and grow in search for new purposes and challenges.

2020
GPS CAN Antenna

2021
OptimusJet Sprayers

2022
Module for ISOBUS Displays

FORTRON

FORTRON MODULE FOR
ISOBUS DISPLAYS

COMPATIBLE WITH DIGITAL AGRICULTURE PLATFORMS

CLIMATE FIELDVIEW!

JOHN DEERE
OPERATIONS CENTER

FULL CONTROL OF SUPPLIES

MONITORS UP TO 72 ROWS OF PLANTING + IN-FURROW INOCULANT SPRAYER

PRIMARY BENEFITS OF THE FORTRON MODULE FOR ISOBUS DISPLAYS

MONITORING

- Monitors up to 72 planting and fertilizer rows
- Variation Coefficient (planting quality)
- Compatible with Auteq and Dickey John monitoring systems

APPLICATION

- Fertilizer application rate
- Real rate and automatic rate for liquid application
- Real rate of seed application
- Capacity for simultaneous use of three products

SECTIONS

- 16 seed and fertilizer application sections
- 04 furrow application sections
- Automatic section control
- Manual section control

TECHNICAL SPECIFICATIONS

- 3 CANbus ports
- 1 RS-232 port
- 1 RS-485 port
- Power supply voltage: 10V - 18V

COMPATIBLE WITH DIGITAL AGRICULTURE SYSTEMS

- *WI-FI AND BLUETOOTH CONNECTION*
- *MEMORY CARD FOR DATA STORAGE*
- *REMOTE UPDATES*
- *EVENT REPORTING*

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IN-FURROW SPRAYERS
OPTIMUSJET

EFFICIENCY IN APPLICATION = GAINS IN PRODUCTIVITY

400L **600L** **850L** **1200L**

AUTOMATIC RATE

| MAINTAINS THE TARGET SPRAY VOLUME PER AREA, REGARDLESS OF SPEED*

*Optional automatic rate / Consult operational limits

F-15 **ISOBUS**

SPRAYER INTEGRATED WITH PLANTING MONITOR

AVAILABLE WITH ELECTRIC OR HYDRAULIC PUMP
ALLOWS TANDEM ASSEMBLY WITH UP TO 4 SPRAYERS

HYDRAULIC SYSTEM

- Comet BP75 Pump 70 l/min
- Hydraulic Application System
- Available in 400, 600, 850, and 1200-liter furrow sprayers
- Automatic application rate control (optional)
- Up to 4 section shut-off (optional)
- Geoline controls

ELECTRIC SYSTEM

- 12V Pump, Flow Rate of 20 l/min
- Electric Application System
- Available in 400, 600, and 850-liter furrow sprayers
- Two pumps (application/agitation)

SOLID STREAM SPRAY NOZZLES MADE OF TECHNICAL CERAMIC (99% ALUMINA)

WITH DRIPLESS NOZZLE

A AUTOMATIC OR MANUAL ACTIVATION APPLICATION

THERMAL PROTECTION, SPRAY AT OPTIMAL TEMPERATURE

AGITATION BY TURBULENCE

SPRAY TEMPERATURE SENSOR

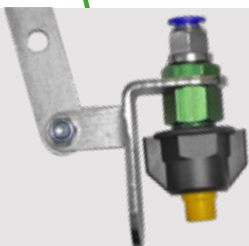CLEAN WATER TANK FOR SYSTEM CLEANING

ELECTRONIC LEVEL BAR

FORTRON

F15 PLANTING MONITOR

SMART PLANTING

With just a few clicks, access key planting information such as seed population per meter per row, implement speed, and more.

INSTALL ON ANY PLANTER
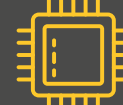
MONITOR UP TO 60 ROWS

TOUCH SCREEN DISPLAY WITH BACKLIGHT

GPS + GLONASS

WATER AND DUST RESISTANT

CANBUS

DEDICATED TECHNOLOGY

COMPATIBLE WITH OPTIMUSJET SPRAYER

The FORTRON F-15 planting monitor provides all the necessary features for accurate planting.

Technologies such as satellite-based speed sensor, glass lens sensor, CANbus communication network, audible alert and backlit LCD touch display ensure robustness and simplicity in planting.

With an easy-to-install GPS + Glonass module, the F-15 monitor ensures precision in calculating seed population, as well as providing an area meter and planting speed. It offers all the operation data and georeferencing through a CANbus port, allowing connectivity with digital agriculture technologies.

COMPATIBLE WITH

CLIMATE FIELDVIEW™

Climate FieldView™ it's Bayer's digital agriculture platform that supports farmers through innovative services and solutions based on data science, helping them manage their operations more efficiently throughout the entire crop cycle, from planting to harvesting.

Fortron and Climate FieldView are farmers partners, quickly providing data from your farm, helping you make the best management and purchasing decisions, further optimizing results.

TECHNICAL SPECIFICATIONS

- Automatic sensors recognition
- GPS + Glonass satellite-based speed sensor
- Compatible with Dickey John and Auteq sensors
- User-friendly display
- Audible and visual alarms
- Adjustable sound signal volume
-

AVAILABLE INFORMATION TO THE OPERATOR

- Average seeds per meter per row
- Planting speed
- Alert for rows without seed drop
- Alert for rows above or below the defined average
- Alert for planting speed above the limit
- Planted area
- Working hours

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AKK25356FT

Seed sensor compatible with Auteq MPA2500 and FORTRON F-15 monitors.

- Robust with exclusive glass lens
- 4-way TE Deutsch connector
- 18mm viewer with high-sensitivity infrared photodiode
- Supply voltage: 7 to 16 V
- Power consumption: 30mA
- Signal type: CANbus 2.0B

452440891-2FT

Seed sensor compatible with Dickey John monitor, Trimble GPS Field-IQ, Precision Planting, and FORTRON F-15 with a 90cm cable.

- Robust with exclusive glass lens
- 3-way Delphi Weather Pack connector
- 18mm viewer with high-sensitivity infrared photodiode
- Supply voltage: 7 to 16 Volts
- Power consumption: 30mA
- Signal type: square wave pulse

FT5218

- GNSS speed sensor
- Output in high-precision pulsed signal
- Compatible with equipment that accepts pulsed and radar inputs
- Fast convergence
- High sensitivity
- GNSS frequency - 10Hz
- Output signal - NPN square wave pulse, 60 pulses/min.
- Operating current - 100mA
- Startup time - less than 60s
- Minimum operating speed - 1kph (0,62 mph).

404831A1FT

Sensor de sementes compatível com plantadeiras Case e New Holland

- Robust with exclusive glass lens
- 3-way Delphi Weather Pack connector
- 23mm viewer with high-sensitivity infrared photodiode
- Supply voltage: 7 to 16 Volts
- Power consumption: 30mA
- Signal type: square wave pulse

467701002FT-B

Mini seed sensor compatible with Dickey John, Trimble Field-IQ, Precision Planting, and FORTRON F-15 monitors.

AA58295-2FT

Seed sensor compatible with Dickey John, Trimble Field-IQ, Precision Planting, and FORTRON F-15 monitors with a 15cm cable.

FT4109-S2

Sim seed sensor compatible with Dickey John, Trimble Field-IQ, Precision Planting, and FORTRON F-15 monitors with a 90cm cable.

FTSS02

Seed sensor compatible with Agral AGeconomy, AG8000, and AG8100 monitors.

AAX10030FT

GPS + Glonass antenna compatible with Auteq MPA2500 and FORTRON F-15 monitors.

AA47936FT

Inductive wheel speed sensor for planters (M30).

AA54557FT

Incremental encoder rotation sensor, 360 pulses per revolution.

AA67780FT

Seed tube made of acrylic with sealing ring.

FT2748

Seed and fertilizer module for planting monitor.

RE261354FT

John Deere planter lift height sensor.

A84774FT-10

Silicone sealing ring for acrylic seed tube - 10 pieces.

AX10115FT

CAN bus termination for Auteq MPA2500 and FORTRON F-15 monitors.

PLANTER

FORTRON

AAX10031FT
Power harness for AUTEQ MPA2500 monitor.

AAX10032FT
CAN bus harness for AUTEQ MPA2500 tractor monitor.

AAX10035FT
CAN bus extension harness for AUTEQ MPA2500. .monitor.

AAX10036FT
CAN bus harness for AUTEQ MPA2500 planter monitor.

AKK33623FT
Short-line clutch harness for DB planters.

AKK33624FT
Long-line clutch harness for DB planters.

AKK12234FT
Y CAN harness for planter with AUTEQ MPA2500 monitor.

FT2243
Harness for 7 to 18-row planters.

FT4875
Power harness for FORTRON F-15 monitor.

FT55798
Monitor harness for CCS planters.

AAX10196FT
Harness for John Deere planter row marker.

FT993959
ISOBUS harness.

CLIMATE FIELDVIEW *HARNESSES*

FT7119
FieldView ISO CNH (Pro700/ Intelliview) harness.

FT8376
FieldView harness for John Deere 6J tractor.

FT1202
FieldView Auteq harness for John Deere and AGCO.

FT3327
FieldView Trimble TMX-2050 harness without extension.

WE MANUFACTURE CUSTOM AGRICULTURAL WIRING HARNESSES

FORTRON

FT087076

Rapid Check 1"
Flow rate: 10-100 l/min
Compatible with Jacto, Stara,
Kuhn, Montana, and Jan.

FT79204172

Rapid Check 1 1/4"
Flow rate: 17-170 l/min
Compatible with Jacto
and Stara.

FT499137

Rapid Check 1 1/2"
Flow rate: 35-350 l/min
Compatible with Jacto.

FT79234071

Rapid Check 1 1/2"
Flow rate: 55-550 l/min
Compatible with Stara 3.0
and 4.0 sprayers.

FT305056

Rapid Check 1 1/2"
Flow rate: 35-350 l/min
Compatible with John Deere.

FT87999

Flow meter sensor for
Jacto sprayers.

78104561FT

Flow meter sensor for
Stara, Kuhn, and Montana
sprayers.

FT750364

Jacto segment sensor.

FT843888

Jacto wheel sensor.

FT73105590

Hall effect rotation
sensor for discs.

FT73104992

Stara magnetic sensor.

FT73104045

FT73104063

M12 inductive sensor.

FT4508-A

3-way Delphi connector
repair kit.

FT4508-B

3-way Delphi connector
repair kit.

FT4508-D

4-way Deutsch
connector repair
kit.

FT4508-E

4-way Deutsch
connector repair
kit.

FT4508-F

9-way connector
repair kit.

FT4508-G

9-way connector
repair kit.

FT4508-H

37-way connector
repair kit.

FT4508-I

37-way connector
repair kit.

FT4508-J

2-way Deutsch
connector
repair kit.

FT4508-K

2-way Deutsch
connector
repair kit.

FT4508-L

SB50 Connector

AKK14217FT

Locking and sealing ring kit
for AUTEQ sensor.

FT2286

Seed conductor
cleaning brush.

IN-FURROW SPRAYERS

FT990546
Refueling kit for agricultural tanks.

FT8147002
Cap and strainer for 400L, 600L, and 800L tanks.

FT8384404
10 bar pressure regulator valve.

FT8384037
20 bar pressure regulator valve.

FT8388007
Agitation valve.

FT6121000
Comet BP75 pump.

FT605075
Pressure pump 5.0 gpm 12V 51s.

FT0500750
Hydraulic motor.
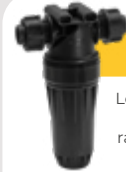
FT5011022
Pump coupling.
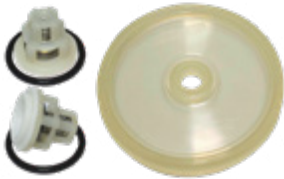
FT990555
Comet BP75 pump repair kit.

FT8095001
100 l/min suction filter with a 50 mesh filter element.

FT3000007
Suction filter with valve, 1 1/4" threaded outlets, capacity of 80 l/min. 50 mesh filter element.

FT3000069
Long cup line filter, 150 l/min flow rate. 80 mesh filter element.

FT3000070
Flanged line filter, 15 bar pressure rating.

FT9905102
Side-mounted furrow sprayer support for AGCO Momentum planters.

FT9905103
Support for furrow sprayer in corbel or table format.

FT5849553
Pressure gauge.

FT0847-X
Quick couplings. Please contact us for more information.

FT3OJSB
Nozzle holder (nozzle not included).

FT1001002-XX
Solid stream spray nozzles made of technical ceramic (99% alumina). Please contact us for more information.

FT3000089
Main anti-drip nozzle for the line.

FT4002146
0.5 bar anti-drip nozzle.

FORTRON

GNSS RECEIVER KIT
SERIAL/CAN FT87491753

EQUIVALENTS:
Garmin 062 / NH062 / AG162

COMPATIBLE WITH
CLIMATE FIELDVIEW

HARVESTING   **PLANTING**   **SPRAYING**   **FERTILIZATION**

AXE17036FT
Platform Position Sensor.

AT333680FT
Feeder Position Sensor.

AXE58085FT
Concave Opening Position.

AH221249FT
Rotation Sensor (RPM).

AH116104FT
Rotation Sensor.

AN372268FT
Position Sensor for Cotton / Sprayer Boom Opening sensor.

RE295929FT
Rotation Sensor for John Deere Tractors.

AH232229FT
Sieve Position Sensor for John Deere.

RE261356FT
Platform Position Sensor for John Deere.

FT86616380
Platform Float Control Sensor for CASE IH.
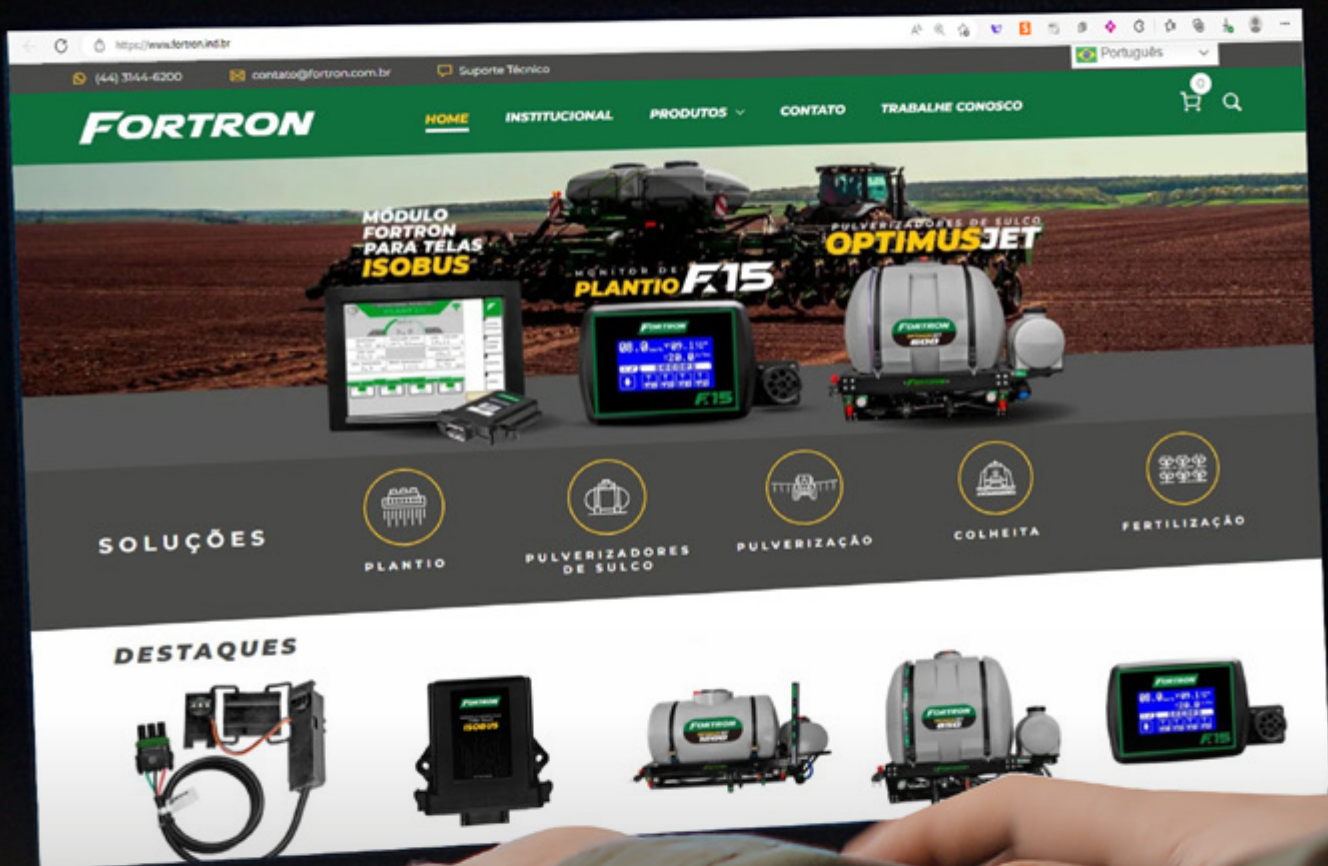
FT86616339
Header Height Sensor Case and New Holland.

FT71376825
Lateral Float Sensor and Concave Adjustment for Massey Ferguson and Valtra.
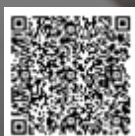
HARVEST