

# Installation Guide

*Prices Changer for Magento 2.x — Extmag\_Pricer*

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# 1 Requirements

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- Magento 2.3.7 or newer (Open Source or Adobe Commerce). Note that the module itself still requires PHP 8.1+ regardless of the Magento version — see the PHP line below.
- PHP >= 8.1. The module uses `readonly` properties, constructor property promotion, `match` expressions, `mixed` type hint, the nullsafe operator and `str_contains` / `str_starts_with` — none of which are available before PHP 8.1. Backport to PHP 8.0 or 7.x is not supported.
- MySQL 8.0+ / MariaDB 10.6+. Older versions may work but have not been tested.
- Composer 2.x.
- `dragonmantank/cron-expression` ^3.3 (pulled transitively). Earlier 3.x releases may work but have not been tested.
- Magento `default` cron group running every minute.
- Multi-website / multi-store supported.

## 2 Composer install

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```
composer require extmag/pricer
bin/magento module:enable Extmag_Pricer
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento cache:flush
```

`setup:upgrade` creates the following tables:

Table	Purpose
<code>extmag_pricer_replacer_sets</code>	Pricer Sets (rule + new prices).
<code>extmag_pricer_schedules</code>	Schedule definitions.
<code>extmag_pricer_set_schedule_link</code>	M:N attach + per-pair execution state.
<code>extmag_pricer_schedule_runs</code>	Append-only audit of every cron firing.
<code>extmag_pricer_price_log</code>	Append-only price-change audit.

If the deploy ships with `setup:di:compile` already done, do not skip it locally — schedule cron groups are wired through `crontab.xml` and need fresh DI compilation on add / upgrade.

## 3 Cron prerequisites

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The Schedule driver is registered as a standard `<job>` in `crontab.xml` and fires every minute. Magento cron must be installed and running.

```
bin/magento cron:install
crontab -l | grep magento
```

Verify the cron group is active:

```
bin/magento cron:status
```

Lock acquisition is handled by `LockManagerInterface` — concurrent cron nodes will not double-fire. Make sure all nodes share the same lock backend (DB lock manager — not file lock on per-node disks).

## 4 First-install configuration

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Stores → Configuration → Extmag → Prices Changer.

Setting	Default	When to change
Reset indexes after changing prices	Yes	Disable only if you reindex on your own schedule.
Enable Price Change Log	No	Enable to start writing audit rows. Disabled by default to avoid surprise.
Enable Schedule Cron	No	Enable before saving any time-based schedule.
Notify on Failure	No	Set Yes plus a recipient list on production.
Recipient emails	empty	Comma-separated, used by the failure email.
Batch Size	50	Lower for memory-constrained environments.

## 5 Catalog Price Scope

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Stores → Configuration → Catalog → Catalog → Price Scope controls whether prices are written globally or per-website. **Changing this setting after Sets have been saved makes those Sets refuse to apply** — the module will throw `This set was created for`

another `Catalog Price Scope`. Recreate the affected Sets under the new scope before running.

## 6 Verification

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```
bin/magento module:status Extmag_Pricer
```

Expect *Module is enabled*. Then visit `Stores → Pricer → Sets` — the grid should render even when empty.

If the grid 500s with `Class "" does not exist`, run `setup:di:compile` again — the grid extends a parent collection whose constructor fallback resolves a connection through DI.

## 7 Adobe Commerce vs Open Source

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The Price Log grid joins on the EAV product name attribute. On Adobe Commerce `catalog_product_entity_varchar` is keyed on `row_id` (staging support); on Open Source it is `entity_id`. The module auto-detects the link field via `MetadataPool` and routes the join through `catalog_product_entity` accordingly. No additional configuration is required.

If the grid 500s with a SQL error referencing an unknown column, clear `generated/` and re-run `setup:di:compile` — the metadata pool entry is built at compile time.

## 8 Upgrade flow

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```
composer update extmag/pricer
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento cache:flush
```

Schema migrations are declarative — no data loss on minor / patch versions. The module ships forward-compatible upgrades for all minor revisions in the 1.x line.

## 9 Disabling the feature without uninstalling

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- `extmag_pricer/schedule/enabled = 0` — turns the Schedule cron driver into a no-op. Saved Schedules and links stay in the database.
- `extmag_pricer/price_log/enabled = 0` — stops Price Change Log writes and disables the cleanup cron. Existing rows stay in place.
- Disable the module via `bin/magento module:disable Extmag_Pricer` — the three Schedule tables, the Price Log table and the `dragonmantank/cron-expression` dependency stay in place.

## 10 Uninstall

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```
bin/magento module:disable Extmag_Pricer
bin/magento setup:upgrade
composer remove extmag/pricer
```

The schema is **not** dropped automatically. To remove the audit tables, run `DROP TABLE` manually after backing up the data:

```
DROP TABLE IF EXISTS extmag_pricer_schedule_runs;
DROP TABLE IF EXISTS extmag_pricer_set_schedule_link;
DROP TABLE IF EXISTS extmag_pricer_schedules;
DROP TABLE IF EXISTS extmag_pricer_price_log;
DROP TABLE IF EXISTS extmag_pricer_replacer_sets;
```

Remove the corresponding entries from `Extmag/Pricer/etc/db_schema_whitelist.json` and `db_schema.xml` if you keep the module source for reference.

## 11 Troubleshooting install-time issues

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### 11.1 `Class "" does not exist` on Sets grid

Run `setup:di:compile` again. The grid extends a parent collection whose constructor fallback resolves a connection through DI; the DI snapshot must exist for the bind to succeed.

### 11.2 SQL error on Price Log grid mentioning unknown column

Clear `generated/` and re-run `setup:di:compile`. The MetadataPool entry that auto-resolves `row_id` vs `entity_id` is built at compile time.

## 11.3 Cron job never fires

- `bin/magento cron:status` — confirms cron is wired in.
- `crontab -l | grep magento` — confirms OS-level entry is in place.
- Stores → Configuration → Extmag → Prices Changer → Schedules → Enable Schedule Cron must be Yes.
- Check `var/log/cron.log` for `extmag_pricer_schedule_runner` lines.

## 11.4 Stuck lock after cron crash

```
SELECT * FROM core_lock WHERE name = 'extmag_pricer_schedule_runner';
```

A row past its expiry indicates a previous run died without releasing. Delete the row to unblock the next tick.

## 11.5 Memory exhausted during apply

Lower the *Batch Size* knob under the Schedules group of the configuration section. The runner streams products in chunks of this size through the internal applier.